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#### MEMORANDUM

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Z CORP COMMISSION

TO:

**Docket Control** 

FROM:

Thomas M. Broderick

FUY

Utilities Division

DATE:

June 14, 2016

Director

RE:

STAFF REPORT FOR TURNER RANCHES WATER & SANITATION, CO.'S

APPLICATIONS FOR A RATE INCREASE AND FINANCING (DOCKET

NOS. W-01677A-16-0076 & W-01677A-16-0074)

Attached is the Staff Report for Turner Ranches Water & Sanitation Co.'s applications for a permanent rate increase and authorization for financing. Staff recommends approval of the rate application using Staff's recommended rates and charges and conditional approval of the Financing application.

Any party who wishes may file comments to the Staff Report with the Commission's Docket Control by 4:00 p.m. on or before June 24, 2016.

TMB:MJR:nr/CHH

Originator: Mary J. Rimback

Arizona Corporation Commission

DOCKETED

JUN 1 4 2016

DOCKETED BY

Service List for: Turner Ranches Water & Sanitation Co. Docket Nos. W-01677A-16-0076 & W-01677A-0074

Ms. Judy Lopez Turner Ranches Water & Sanitation Co. Post Office Box 1020 Apache Junction, Arizona 85217

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Ms. Janice Alward Chief Counsel, Legal Division Arizona Corporation Commission 1200 West Washington Phoenix, Arizona 85007

Mr. Thomas M. Broderick Director, Utilities Division Arizona Corporation Commission 1200 West Washington Phoenix, Arizona 85007

Mr. Dwight Nodes Chief Administrative Law Judge, Hearing Division Arizona Corporation Commission 1200 West Washington Phoenix, Arizona 85007

# STAFF REPORT UTILITIES DIVISION ARIZONA CORPORATION COMMISSION

TURNER RANCHES WATER & SANITATION CO. DOCKET NOS. W-01677A-16-0076 & W-01677A-16-0074

APPLICATION FOR A
PERMANENT RATE INCREASE
AND FINANCING

**JUNE 14, 2016** 

#### STAFF ACKNOWLEDGMENT

The Staff Report for Turner Ranches Water & Sanitation Co., ("Turner" or "Company") Docket Nos. W-01677A-16-0076 and W-01677A-16-0074 is the responsibility of Staff members listed below. Mary J. Rimback is responsible for the review and analysis of the Company's application, recommended revenue requirement, rate base, rate design and financial analysis. Frank Smaila is responsible for the engineering and technical analysis. Trish Meeter is responsible for reviewing the Commission's records on the Company, determining compliance with Commission policies/rules and reviewing customer complaints filed with the Commission.

Mary J Rimback

Public Utility Analyst

Frank Smaila

Utilities Engineer

Public Utilities Consumer Analyst

# EXECUTIVE SUMMARY TURNER RANCHES WATER & SANITATION CO. DOCKET NOS. W-01677A-16-0076 (Rates) and W-01677A-16-0074 (Financing)

Turner Ranches Water & Sanitation Co. ("Turner" or "Company") is a for-profit Arizona "S" Corporation and a Class D public service corporation providing irrigation service in Maricopa and Apache Counties in Arizona. The Company indirectly provides non-potable water for irrigation purposes to over 963 residential customers. The 963 residential customers are members of a Homeowners Association ("HOA"). A single bill is transmitted to the HOA. The HOA then bills the individual residents, billings to the individual residents are at Arizona Corporation Commission ("ACC") approved tariffed rates. In addition, the Company provides non-potable water to: 135 fire hydrants, three golf courses, one cemetery, and other common areas in the East Valley including, but not limited to, the Leisure World community in Mesa, Arizona.

On March 2, 2016, the Company filed an application for a permanent rate increase. Concurrent with that filing, Turner also filed for approval of a financing application. On March 29, the Company filed an amendment to the rate application. A Procedural Order, dated May 5, 2016, consolidated the rate and financing cases.

The Company proposed permanent rates that provide total operating revenue of \$831,799 an increase of \$134,750, or 19.33 percent, over Company adjusted test year revenue of \$697,049 to provide an \$111,095 operating income on its proposed \$925,790 fair value rate base ("FVRB") which is its original cost rate base ("OCRB"). The Company's proposed rates result in a 13.36 percent operating margin. The Company proposed rates would increase the typical monthly bill for a Leisure World irrigation customer, by \$3.96 or a 17.89 per cent from \$22.14 to \$26.10.

In addition to permanent rates, the Company is requesting a debt surcharge recovery mechanism ("DSRM") to provide an additional \$65,859 in annual revenue. The DSRM is to provide for debt service on a requested \$450,000 loan.

The proposed permanent rates and the DSRM provide proposed revenue of \$897,658, an increase of \$200,609 over Company proposed test year income to provide a \$163,255 operating income on its proposed \$925,790 FVRB. The combined increase results in an operating margin of 18.19 percent. The customer notification states that this will result in an additional increase of \$5.70 per customer per month.

The rate impact proposed by the Company, would increase the typical monthly bill of a Leisure World irrigation customer by \$9.66 per customer per month or a 43.63 percent from \$22.14 to \$31.80.

Staff recommends permanent rates that produce total operating revenue of \$828,763, an increase of \$145,028, or 21.21 percent, over the Staff-adjusted test year revenue of \$683,735, to provide an \$112,204 operating income on the \$935,037 Staff-adjusted FVRB. Staff's recommended rates result in a 13.54 percent operating margin. Staff's recommended rates would increase the typical monthly bill for a residential irrigation customer by \$4.40 or 19.87 percent from \$22.14 to \$26.54 (MJR-5).

Cash flow from operations is sufficient to cover debt service on the proposed loan; thus, Staff does not recommend the DSRM proposed by the Company. The Company does not need an additional source of funds to meet its annual debt service obligation of \$57,938, as adjusted by Staff. Staff's revenue requirement results in \$213,458 of uncommitted cash flow. Staff's revenue requirement increases the Company uncommitted cash flow \$121,857 from Staff adjusted \$97,937 to \$213,458, an increase of 117.96 percent.

#### Staff recommends:

- Approval of Staff's rates and charges as shown in Schedule MJR-4.
- In addition to collection of its regular rate and charges, the Company may collect from its customers a proportionate share of any privilege, sales or use tax, per Arizona Administrative Code ("A.A.C.") Rule 14-2-409(D)(5).
- Directing the Company to docket with the Commission a schedule of its approved rates and charges within 30 days after the date the Decision in this matter is issued.
- Granting the Company authorization to incur a 10 year amortizing loan in an amount not to exceed \$450,000 pursuant to a loan agreement with BBVA Compass Bank at an interest rate not to exceed WSJ Prime + 1.75 percent fixed for ten years.
- Establishing an expiration date for any unused authorization to incur debt granted in this proceeding at December 31, 2017.
- Directing the Company to file as a compliance item in this Docket, within 30 days of the execution of any financing transaction authorized herein, a notice confirming that such execution has occurred and a certification by an authorized Company representative that the terms of the financing fully comply with the authorizations granted.
- Directing the Company to provide to the Utilities Division, upon Staff request, a copy of any BBVA Compass Bank loan documents executed pursuant to the authorizations granted herein.
- Authorizing the Company to pledge its assets in the State of Arizona pursuant to Arizona Revised Statutes § 40-285 and A.A.C. R18-15-104 in connection with the BBVA Compass Bank loan.
- Authorizing Turner to engage in any transaction and to execute any documents necessary to effectuate the authorizations granted.
- Directing Turner, as a compliance item in this case, to notify its customers of the authorized rates and charges approved in this proceeding, and their effective date, in a form acceptable to Staff, by means of an insert in its next regular scheduled billing

and to file copies with Docket Control within 10 days of the date notice is sent to customers.

- Authorizing the depreciation rates shown in Table 6 of the Engineering Report.
- Directing the Company to install a water meter at the fire and irrigation booster station to register gallons sold to Leisure World residential customers.
- Directing that any increase in rates approved by the Commission not become effective until the first day of the month after the Company files with Docket Control, as a compliance item in this Docket, documentation from Arizona Department of Water Resources ("ADWR") indicating that Turner Ranches' water system is compliant with the departmental requirements governing water providers and/or community water systems (See Section F, ADWR Compliance, for further discussion).

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#### **FACT SHEET**

#### **Company Statistics:**

Current Rates: Decision No. 62319 dated February 17, 2000.

Type of Ownership: S-Corporation.

Location: The Company's service area is located in portions of Maricopa County, Arizona,

including, but not limited to, the Leisure World community in Mesa, Arizona.

#### Rates:

Rate Application Docketed: March 2, 2016 Current Test Year Ended: December 31, 2015 Application Found Sufficient: March 31, 2016

		Company	Staff
	Current <u>Rates</u>	Proposed	Recommended
	<u>itates</u>	<u>Rates</u>	<u>Rates</u>
Unmetered Residential (Leisure World)			
Turner bills Leisure World one bill and Leisure			
World charges a tariffed flat amount to individual	<b>***</b>	****	
Residents for irrigation	\$22.14	\$26.10	\$26.54
DSRM Surcharge	-0-	\$5.70	-0-
C	•	<b>#3.</b> 10	· ·
Customers:			
Number of customers in the prior test year (12/31/1	996).		
Unmetered Residential Irrigation Customers approxim		900	
· · · · · · · · · · · · · · · · · · ·	·		
Number of customers in the current test year (12/31,			
Unmetered Residential Irrigation Customers approxir	nately	949	
Current year customers by meter size:			
, , , , , , , , , , , , , , , , , , , ,			
Unmetered Residential Irrigation (monthly flat rate)		949	
Unmetered Irrigation (per acre flat rate)		5	
Metered Irrigation		11	
1 inch Fire Service		1	
4 inch Fire Service		1	

## FACT SHEET (CONT'D)

6 inch Fire Service 8 inch Fire Service	1 1
Seasonal customers:	unknown
Customer notification mailed:	April 5, 2016
No. of customer complaints	-0-
Percentage of complaints to customer base:	-0-

#### SUMMARY OF RATE FILING

The test year results, as adjusted by Staff, for Turner Ranches Water and Sanitation Company ("Turner" or "Company") show total operating revenue of \$683,735 and operating expenses of \$687,052 resulting in a \$3,317 operating loss, to provide no rate of rate of return on the \$935,037 Staff-adjusted original cost rate base ("OCRB"). Since the Company did not file reconstruction cost new information, Staff recommends recognizing a fair value rate base ("FVRB") equal to the OCRB. Staff adjusted test year revenues produce no significant operating margin and a cash flow of \$97,937.

The Company proposed revenue from permanent rates is \$831,799, as shown on page 6 of the application. Also on page 6 of the application, the Company proposes a "Debt Service Recovery Mechanism ("DSRM") in the amount of \$65,859 in additional revenues. The calculation of the DSRM is shown on Company Supplemental Schedule S-8. This is represented as a surcharge to provide debt service on a proposed financing of \$450.000.

The Company's proposed permanent rates result in operating revenues of \$831,799. The amount requested produces an increase of \$134,750 or 19.33 percent over test year revenue of \$697,049 to provide an \$111,095 operating income and a 13.36 percent operating margin. The Company proposed a \$925,790 FVRB and OCRB. The proposed revenue results in a cash flow of \$209,290. The Company's proposed rates increase the typical monthly bill for a leisure world customer by \$3.96 from \$22.14 to \$26.10 or 17.89 percent (Schedule MJR-5)

The proposed addition of a DSRM results in operating revenues of \$897,658. The amount requested including the DSRM produces an increase of \$200,609 or 28.78 percent over Company adjusted test year revenue of \$697,049 to provide a \$163,255 operating income and an 18.19 percent operating margin. The Company proposed a \$925,790 FVRB and OCRB. The proposed revenues result in a cash flow of \$265,228. The Company proposed rates including the DSRM increase the typical monthly bill for a leisure world customer by \$9.66 or 43.63 percent.

Staff recommends permanent rates that produce total operating revenue of \$828,763, an increase of \$145,028 or 21.21 percent, over the Staff-adjusted test year revenue of \$683,735, to provide an \$112,204 operating income and a 13.54 percent operating margin. Staff recommends an adjusted FVRB of \$935,037. Under Staff's recommended rate design for permanent rates, the typical monthly bill for a residential irrigation customer would increase by \$4.40, or 19.87 percent, from \$22.14 to \$26.54.

Turner provides non-potable water for irrigation purposes to approximately 963 residential customers, 135 fire hydrants, three golf courses, one cemetery, and other common areas in portions of Maricopa and Apache County, Arizona. During the test year ended December 31, 2015, Turner provided water to 4 classifications of customers: Unmetered Residential (approximately 949 are residents of Leisure World and are billed via the Homeowners Association on a flat monthly basis); Per Acre Customers (approximately 5 are billed a flat per acre per year charge); Metered Irrigation (approximately 11 customers billed a monthly charge of \$111.06 and an \$.80 per 1,000 gallons commodity charge; and lastly Fire Service which is a flat monthly charge increasing by meter size.

The Company's management functions are currently conducted through a management contract with First National Management, Inc. ("FNB"). The management contract is signed by Ron Lopez, vice president, for the Utility and Judy A. Lopez, President, of First National Management, Inc. First National Management, Inc. is paid \$17,000 per month or \$204,000 in the test year. Additionally, a management salary of \$45,000 is included in the test year. The Company rents office space from First National Management at a rate of \$1,240.80 per month or \$14,890 during the test year. The Company also rents a storage unit for approximately \$1,200 per year. A three factor allocation factor is developed for charges to Turner. The three factors are customers, net plant, and operating expenses less depreciation, income taxes, and management fees. Allocation factors are:

Beardsley 36.62%, Turner 56.52 % Casita Bonitas 4.07 % Sedona (Oak Creek Water and Sewer) 2.79%

#### COMPANY BACKGROUND

Turner is a for-profit Arizona S-Corporation and a Class D public service corporation providing non-potable water for irrigation purposes to approximately 963 residential customers, 135 fire hydrants, three golf courses, one cemetery, and other common areas in portions of Maricopa and Apache County, Arizona, including, but not limited to, the Leisure World community in Mesa, Arizona.

The Company was formed in 1972 by Western Savings and Loan in connection with the development of the Leisure World community. In 1989, the Resolution Trust Corporation ("RTC") took control of Western Savings and Loan, Including Turner Ranches. Turner remained under the RTC until 1995, when the Federal Depository Insurance Corporation ("FDIC") took ownership. The current owner of the Company purchased it in December of 1996 from the FDIC. Current rates were established in Decision No. 62319, dated February 17, 2000. At that time, the Company also provided potable water to approximately 69 residential customers through a division named Alpine Water. Alpine Water was sold to Alpine Domestic Water Improvement District in 2009.

The Company provided an organization chart to describe the various relationships among the parties. Ronny and Judy Lopez own 100 percent of Turner. Ronny and Judy Lopez (66 2/3 percent) and Fred T. Wilkinson (33 1/3 percent) are owners of Sequoia. Sequoia in turn, owns 100 percent of FNB. In effect, Ronny and Judy Lopez own the Company and are 2/3 owners of the FNB Management Company which manages Turner. FNB manages but does not have an ownership interest in Beardsley Water Company, Casita Bonitas Sanitary Improvement District and Oak Creek Utility Corp.

Turner filed both its application for a permanent rate increase and its financing application on March 2, 2016. An amendment to the rate application was docketed on March 29. The application was found sufficient on March 31, 2016. A Procedural Order dated May 5, 2016,

consolidated the rate and financing cases. The Company docketed an affidavit that a combined rate and financing notice was sent to customers on April 5, 2016.

#### **CONSUMER SERVICES**

A review of the Consumer Service records showed that no complaints or opinions have been filed against the Company.

A review of the Company's billing format indicates that it is in compliance with the Arizona Administrative Code ("A.A.C.") R14-2-409(B)(2)

#### **COMPLIANCE ISSUES**

The Company has no delinquent compliance items with the Arizona Corporation Commission ("ACC" or "Commission") Utilities Division. The Company is current on its property tax obligations.

The Company has a Certificate of Compliance Letter of Good Standing from the Arizona Department of Revenue as of February 10, 2016.

The Company is not currently compliant with the Arizona Department of Water Resources ("ADWR"). Staff recommended rates should not be effective until the Company is Compliant with ADWR. This is discussed in the Staff's Engineering Report.

#### **ENGINEERING ANALYSIS**

The Company proposes long term debt financing for the purpose of capital projects needed to provide reliable irrigation service. The Company submitted as Exhibit 2 to the financing application, a detailed listing of planned capital improvement projects along with estimated costs.

Staff concludes that the Capital Improvements and Maintenance Projects proposed by the Company and contained in its financial application are appropriate and their associated costs estimates appear to be reasonable. However, Staff makes no "used and useful" determination regarding improvements to be funded by the financing for rate base or ratemaking purposes.

Details of Staff's review of the system are presented in the attached Staff Engineering Report.

#### RATE BASE

Staff's two rate base adjustments result in a net increase to the Company's proposed rate base by \$9,247 from \$925,790 to \$935,037, as shown in Schedule MJR-2, page 1. Details of Staff's adjustments are explained below.

<u>Plant Adjustment</u> – In adjustment A, Staff increased plant in the amount of \$8,816. The Company provided clarifications to invoices submitted and agreed to the adjusted plant balances. The result in particular plant accounts is as shown in schedule MJR-2, page 2:

- -Decrease Power Generated Equipment \$26,094
- -Increase Pumping Equipment \$34,911

Accumulated Depreciation – In adjustment B, Staff made a conforming adjustment to decrease accumulated depreciation by \$431, from \$3,696,776 to \$3,696,345, as shown in Schedule MJR-2, page 3. The adjustment is to conform to the adjustments made to plant balances.

#### **OPERATING INCOME**

Staff's five operating income adjustments decrease the Company's proposed total operating revenues by \$13,314 from \$697,049 to \$683,735 and decrease the total operating expenses by \$3,079, from \$689,949 to \$686,870, as shown in Schedule MJR-3, page 1. Details of Staff's adjustments are discussed below.

<u>Inclining Usage Revenue</u> – Adjustment A decreases Water Revenue by \$13,314 to remove the Company pro-forma adjustment for anticipated inclining water usage. Staff engineering analysis concludes that there is a declining usage over the last ten years. And specific reference is made to certain customer's water conserving efforts in recent years. The Company's methodology includes only five years of data and provides no explanation as to why the Company should experience an inclining level of usage in future years.

<u>Depreciation</u> – Adjustment C increases depreciation expense by \$3,059 from \$98,195 to \$100,254 to reflect reclassification of plant, which is depreciated at different depreciation rates as shown in Schedule MJR-3, page 3.

<u>Property Tax</u> – Adjustment D decreases property tax expense by \$564 to reflect Staff's application of the modified version of the Arizona Department of Revenue's ("ADOR") property tax methodology which the Commission has consistently adopted.

<u>Income Taxes</u> – Adjustment E decreases income tax expense by \$5,591 to allow for Staff calculated income taxes on the test year operating loss for an S-Corporation.

#### REVENUE REQUIREMENT

Staff recommends total operating revenue from permanent rates of \$828,763, an increase of \$145,028, or 21.21 percent, over the Staff-adjusted test year revenue of \$683,735. Staff's recommended revenue provides an operating income of \$112,204 and a 13.53 percent operating margin as shown in Schedule MJR-1. Staff did not derive the revenue requirement by applying a rate of return on rate base. Staff derived the revenue requirement to provide the Company an ability to meet operating expenses and manage contingencies and to provide debt service on the Company's proposed loan.

#### **RATE DESIGN**

Schedule MJR-4 presents a complete list of the Company's present, proposed, and Staff's recommended rates and charges.

The present rate structure includes four tariffed classifications:

- Unmetered Residential monthly flat charge
- Unmetered annual charge per acre
- Metered Irrigation monthly flat charge plus a per 1,000 gallons commodity charge
- Fire Service monthly flat charge

#### Unmetered Residential monthly flat charge

The Company proposes an increase in the unmetered residential class in the amount of \$3.96 in permanent rates plus \$5.70 in surcharge rates resulting in a total increase of \$9.66 or 43.63 percent. Staff recommends an increase in the unmetered residential class in the amount of \$4.40 from \$22.14 to \$26.54 an increase of 19.87 percent.

#### Unmetered annual charge per acre

The Company proposes an increase to unmetered annual acre charged customers of \$139.85 from \$781.26 to \$921.11 or 17.90 percent. It is unclear if this classification is to be charged a \$5.70 monthly surcharge, Staff did not include this as the customers are billed on an annual basis only. Staff recommends an increase of \$155.51 to \$936.77 an increase of 19.91 percent.

### Metered Irrigation monthly flat charge plus a per 1,000 gallons commodity charge

The Company proposes an increase in the monthly flat charge of \$19.88 in permanent rates plus \$5.70 in surcharge rates from \$111.04 to \$136.64 resulting in a total increase of \$25.60 or 23.05 percent. Staff recommends an increase of \$22.11 or 19.91 percent from \$111.06 to \$133.77. The Company also proposes an increase in the commodity charge of \$.16 from \$.80 per 1,000 gallons to \$.96 per 1,000 gallons or 20.00 percent. Staff recommends an increase in the commodity charge of \$.18 per 1,000 gallons or a 22.50 percent increase from \$.80 to \$.98 per 1,000 gallons.

#### Fire Service monthly flat charge

The Company charges fire service a flat rate per diameter of service connection. The Company proposes an increase in the monthly flat charge of \$3.31 in permanent rates plus a \$5.70 in surcharge rates from \$18.50 to \$27.51 or 48.70 percent. Staff recommends an increase in the flat rate per diameter of service connection of \$3.68 from \$18.50 to \$22.18 or 19.89 percent.

Staff recommends increasing the jCompany's proposed rate structure by approximately 1.7 percent to remove the inclining usage included in the Company proposed rates and recommends disallowance of the Company proposed \$5.70 surcharge to all customers.

The Company proposes and Staff recommends that meter installation charges are charged at cost as shown in MJR-4, page 1.

The Company proposes and Staff recommends no change to current charges for:

- Establishment
- Meter Test (if correct)
- Meter re-read (if correct)
- Deposit
- Deposit Interest
- Re-Establishment (within 12 months)
- Reconnection Delinquent
- NSF Check Charge
- Deferred Payment (per month)
- Late Payment penalty

The Company has proposed a change to Moving Customer Meter (Customer Request). Currently there is no tariff for this, the Company proposes and Staff recommends a charge of at cost.

The Company has proposed and Staff recommends adding an After Hours Service charge of \$50.00, currently the Company has no tariff for this category.

The Company proposes and Staff concurs with removing the current tariff for Establishment (After Hours).

The Company proposes and Staff concurs with a single meter test (if Correct) charge of \$25.00. The current tariff includes separate charges for each meter size, the Company is not currently charging by meter size and Staff recommends that the various charges by meter size be removed from the Tariff.

Staff's recommended water system service charges are shown in Schedule MJR-4, page 1.

#### FINANCIAL ANALYSIS - LOAN AUTHORIZATION REQUEST

Purpose and Description of the Requested Financing

The Company seeks approval for long-term financing for the purpose of capital improvements necessary to maintain service and reliability of the system. Staff's Engineer found the plan and estimated costs to be appropriate. No "used and useful" determination of the proposed plant was made, and no particular future treatment should be inferred for rate making or rate base purposes.

In anticipation of these projects, Turner applied for long term financing of \$450,000. Turner included as Exhibit 3 a "Summary of Terms and Conditions of Proposed Credit Facility" "Term Sheet" dated 1/22//16. The Term sheet was proposed by BBVA Compass bank for a SBA 7a loan not to exceed \$450,000 for a term of 10 years at an interest rates of WSJ Prime + 1.75 percent fixed for ten years. Any remaining principal and accrued interest is due at maturity. The term sheet is a proposal not a commitment. A number of calculations were included in the financing application and in subsequent data request responses. Staff's recommendations are based on the information included in the financing application term sheet. Staff calculated monthly principal and interest payments based on the term sheet provided in the application (Schedule MJR-6). Staff also used a synchronized interest calculation to normalize interest deductible for tax purposes.

Debt Service Coverage and Cash Flow Analysis

Staff recommends its permanent rates as shown on Schedule MJR-4. However, Staff does not recommend additional surcharges proposed by the Company. The proposed permanent rates provide satisfactory financial ratios to cover the debt servicing.

Staff calculated various pro-forma ratios for Company proposed permanent rates, Company proposed permanent rates plus Company proposed surcharge and Staff recommended rates (Schedule MJR-1).

Staff recommended permanent rates result in a Times Interest Earned Ratio ("TIER") of 5.98, a ratio of 2.0 or higher is considered adequate to protect the creditor's interests. Staff permanent rates allow for a Debt Service Coverage Ratio ("DSCR") of 4.10. Acceptable ratios range between 1.0 and 2.0. Staff also calculated a cash coverage ratio of 10.42, indicating that the cash flow from operations after new permanent rates are established is sufficient to cover debt service on the proposed loan.

Cash flow from operations after new rates are established is sufficient to cover debt service on the proposed loan; accordingly, the Company's requested surcharge in addition to permanent rates is not recommended. Staff prepared the cash flow analysis presented in Schedule MJR-7 and determined that the Company would have additional cash flow of \$155,521 after debt servicing.

Company Proposed Loan Surcharge

A \$5.70 per month per customer surcharge is proposed by the Company. Based on an estimated customer count of 963. The surcharge would allow for an additional \$65,859 revenues. The Company included a calculation for loan payments based on a loan amount of \$465,500 (principal and interest of \$59,715), plus pro-forma depreciation expense (\$3,778) and pro-forma increased taxes on the increased revenues.

Staff did calculate the pro-forma amounts differently, using the requested loan amount of \$450,000 and pro-forma amounts for property and income taxes and synchronized interest. The variance in the calculations is not the basis for Staff not recommending the Company proposed

surcharge; rather the financial ratios produced under either Staff's or the Company's recommendations do not suggest a need for an additional surcharge.

Capital Structure

As reported in its rate application, Turner's capital structure as of December 31, 2015, consisted of 0.0 percent short-term debt, 0.0 percent long-term debt, and 100.0 percent equity. Staff calculated a pro forma capital structure reflecting issuance of a \$450,000, loan at an interest rate of WSJ Prime + 1.75 percent fixed for ten years. Any remaining principal and accrued interest due at maturity. Pro-forma capital structure after the proposed loan is 2.85 percent short term debt, 33.62 percent long-term debt and 63.53 equity.

#### Encumbrance

The term sheet provided by BBVA bank stipulated Collateral of 1st lien position on Property on the land where wells are located, on equipment to be acquired and on existing equipment. Arizona Revised Statutes ("A.R.S.") § 40-285 requires public service corporations to obtain Commission authorization to encumber certain utility assets. The statute serves to protect captive customers from a utility's act to dispose of any of its assets that are necessary for the provision of service; thus, it serves to preempt any service impairment due to disposal of assets essential for providing service. Pledging assets as security typically provides benefits to the borrower in the way of increased access to capital funds or preferable interest rates, and it is often an unavoidable condition for procurement of funds for small or financially stressed entities.

#### STAFF RECOMMENDATIONS

#### Staff recommends:

- Approval of Staff's rates and charges as shown in Schedule MJR-4.
- In addition to collection of its regular rate and charges, the Company may collect from its customers a proportionate share of any privilege, sales or use tax, per Arizona Administrative Code ("A.A.C.") Rule 14-2-409(D) (5).
- Directing the Company to docket with the Commission a schedule of its approved rates and charges within 30 days after the date the Decision in this matter is issued.
- Granting the Company authorization to incur a 10 year amortizing loan in an amount not to exceed \$450,000 pursuant to a loan agreement with BBVA Compass Bank at an interest rate not to exceed WSJ Prime + 1.75 percent fixed for ten years.
- Establishing an expiration date for any unused authorization to incur debt granted in this proceeding at December 31, 2017.

- Directing the Company to file as a compliance item in this Docket, within 30 days of the execution of any financing transaction authorized herein, a notice confirming that such execution has occurred and a certification by an authorized Company representative that the terms of the financing fully comply with the authorizations granted.
- Directing the Company to provide to the Utilities Division, upon Staff request, a copy of any BBVA Compass Bank loan documents executed pursuant to the authorizations granted herein.
- Authorizing the Company to pledge its assets in the State of Arizona pursuant to Arizona Revised Statutes § 40-285 and A.A.C. R18-15-104 in connection with the BBVA Compass Bank loan.
- Authorizing Turner to engage in any transaction and to execute any documents necessary to effectuate the authorizations granted.
- Directing Turner, as a compliance item in this case, to notify its customers of the authorized rates and charges approved in this proceeding, and their effective date, in a form acceptable to Staff, by means of an insert in its next regular scheduled billing and to file copies with Docket Control within 10 days of the date notice is sent to customers.
- Authorizing the depreciation rates shown in Table 6 of the Engineering Report.
- Directing the Company install a water meter at the fire and irrigation booster station to register gallons sold to Leisure World residential customers.
- Directing that any increase in rates approved by the Commission not become effective until the first day of the month after the Company files with Docket Control, as a compliance item in this Docket, documentation from Arizona Water Resources Department ("ADWR") indicating that Turner Ranches water system is compliant with the departmental requirements governing water providers and/or community water systems (See Section F, ADWR Compliance, for further discussion).

Docket No. W-01677A-16-0074 (Fin) & 0076 (rates)

Test Year Ended December 31, 2015

#### SUMMARY OF FILING

	Pres	ent Rates				Propose	ed Rates
1	Company	Staff	Co. Proposed		T	Permanent	Staff
2	as	as	Permanent	Co. Proposed		plus surcharge	as
3	Filed	Adjusted	Rates 1	Surcharge 2		As Filed	Adjusted
4		<u> </u>			T		
5 Revenues:			İ				
6 Water Revenue	\$683,735	\$683,735	\$815,769		g	\$815,769	\$828,763
7 Other Water Revenue	-	-			ľ,	_	_
8 Surcharge				65,859	ь	\$65,859	_
9 Inclining Usage Revenues	13,314		16,030			\$16,030	-
10				İ			_
11 Total Operating Revenue	\$697,049	\$683,735	\$831,799	\$65,859	Ιi	\$897,658	\$828,763
13 Operating Expenses:	ļ				]		
14 Operation and Maintenance	\$558,351	\$558,368	\$558,351			\$558,351	\$558,368
15 Depreciation	98,195			3,778	d	101,973	101,254
16 Taxes Other than Property and Income	3,443				-	3,443	3,443
17 Property Taxes	27,990					29,894	29,475
18 Income Tax	1,970	(3,439)	· ·	9,921	f	40,742	24,018
19		,	,	· · ·	İΙ	,	,
20 Total Operating Expense	\$689,949	\$687,052	\$720,704	\$13,699		\$734,403	\$716,558
21							
22 Operating Income/(Loss)	\$7,100	(\$3,317)	\$111,095	\$52,160	a	\$163,255	\$112,204
23					П		
24 Rate Base	\$925,790	\$935,037	\$925,790			\$925,790	\$935,037
25							,
26 Cash Flow	\$ 105,295	\$ 97,937	\$ 209,290			\$ 265,228	S 213,458
27		,	"			,,	2.3,,30
28 Operating Margin	1.02%	-0.49%	13.36%			10.100/	10 5 40
29	1.02/	-0.49/0	15.5076			18.19%	13.54%
30 Principal	\$ -	S -	\$ 34,965.00	\$ -	e	\$ 34,965	\$ 35,150
31 Interest	\$ -	\$ -	\$ 24,750.00	\$ -	$\vdash$	\$ 24,750	
32 Debt Service Coverage						<del></del>	
32 Debt betrice Coverage			\$ 59,715.00	\$ -		\$ 59,715	\$ 57,938

<sup>34 1</sup> Page 19-1 of rate application.

#### 37 **RATIOS:**

38	
20	-

36

32 33

TIER (	l'imes I	nterest	Earned	Ratio	)
--------	----------	---------	--------	-------	---

39 TIER (Times Interest Earned Ratio)					
40 [(a) + (f)] ÷ (c)	N/M	N/M	5.73	8.24	5.98
41 DSC Before Income Taxes					
42 $[(a) + (d) + (f)] \div [(c) + (e)]$	N/M	N/M	4.02	5.12	4.10
43 DSC After Income Taxes					
$[(a) + (d)] \div [(c) + (e)]$	N/M	N/M	3.50	4.44	3.68
45 CASH COVERAGE RATIO					
46 [(a) + (d) +(f)] ÷ (c)]	N/M	N/M	9.70	12.36	10.42
47					

The times interest earned ratio (TIER) represents the ability of the Cjompany to pay interst expenses before taxes. Generally aratio of  $48\,\,2$  or higher is considered adequate to protect the creditors interests 49

The Debt Service Coverage Ratio (DSCR) represents the ratio of cash available for debt servicing to interst and principal DSCR ratios 50 required by lenders generally range between 1.0 and 2.0

51 52 Operating Margin represents the proportion of funds available to pay interst and other below the line or non-ratemaking expenses. 53

The cash coverage ratio is useful for determining the amount of cash available to pay for a borrower's interest expense, and is expressed as a ratio of the cash available to the amount of interest to be paid. To show a sufficient ability to pay, the ratio should be 54 substantially greater than 1:1.

<sup>35</sup>  $\,^2$  Supplemental Schedule S-8 of the rate application.

## RATIEBASE :

	e- c- m		
	Company	Adjustment	Staff
1 Plant in Service 2	\$4,622,566	\$8,816 A	\$4,631,382
3 Less:			
4 Accum. Depreciation	3,696,776	(431) B	3,696,345
5			
6 Net Plant	\$925,790	\$9,247	\$935,037
7			
8 Less: 9 Plant Advances			
10 Customer Security Deposits	_	-	_
11			
12 Total Advances	-	<del>~</del>	-
13			
14 Contributions Gross	=	-	-
15 Less:			
16 Amortization of CIAC		=	
17			
18 Net CIAC 19	-	-	-
20 Total Deductions		_	
21			
22 Plus:			
23 1/24 Power	-	-	=
24			
25 1/8 Operation & Maint.	-	-	-
26			
27 Inventory 28	-	-	-
29 Prepayments			
30	-	-	-
31 Total Additions	-		-
32			
Rate Base	\$ 925,790 \$	9,247	\$ 935,037

Explanation of Adjustment:

A See Schedule MJR-2, Page 2 PLANT ADJUSTMENTS

B See Schedule MJR-2, page 3

#### 

1			 Company Exhibit		Adjustment			Staff Adjusted
2	301 Organization		\$ 606	\$		4	\$	
3	302 Franchises		\$ 771	Þ	-	Λ	Þ	606
4	303 Land & Land Rights		30,096		•			771
5	304 Structures & Improvemen	.to	121,993		-			30,096
6	307 Wells & Springs	115	· ·		•			121,993
7	310 Power Generated Equipm	ant.	683,579		(24,00.0			683,579
8	311 Pumping Equipment	ieni	97,137		(26,094)			71,043
9	320.1 Water Treatment Equipme		1,384,287		34,911			1,419,198
10	320.2 Solution Chemical Feeders		439		-			439
11	330 Distribution Reservoirs an				-			701 (00
12	330.1 Storage Tanks	и зыпарфе	781,699		-			781,699
13	330.2 Pressure Tanks		-		-			-
14	331 Transmission & Distribution	ion Mains	1,021,190		•			1 021 100
15	333 Services	on mants	100,441		-			1,021,190
16	334 Meters & Meter Installatio	ane.	133,054		*			100,441
17	335 Hydrants	otts	210,874		-			133,054
18	336 Backflow Prevention Devi	iana	210,674		*			210,874
19	339 Other Plant and Misc. Equ		5,344		-			5,344
20	340 Office Furniture & Equipr	•	6,852		-			
21	340.1 Computers & Software	mem	6,514		-			6,852
22	341 Transportation Equipment		27,742		-			6,514 27,742
23	343 Tools Shop & Garage Equ		7,016		-			,
24	344 Laboratory Equipment	притен	7,010		-			7,016
25	345 Power Operated Equipme	ent.	263		•			263
26	346 Communication Equipmen		2,668		-			
27	347 Miscellaneous Equipment	111	2,000		-			2,668
28	348 Other Tangible Plant		-		-			-
29	Rounding		- 1		(1)			-
30	Rounding		 1		(1)			-
31	TOTALS		\$4,622,566		\$8,816		\$	4,631,381
32	TOTALS		 \$4,022,300		\$0,010		3	4,031,381
33								
33 34	Vivolenski C A i	di A.						
	Explanation of Ac	ijusunent A:						
35 36		**						
20	310 Power Generated 311 Pumping Equipme		\$ 97,137 1,384,287	\$ \$	(26,094) 34,911		\$ \$	71,043 1,419,198

These amounts were adjusted based on information from Company received via  ${\it cmail}$  on 5.17.2016.

### ACCUMULATED DEPRECIATION ADJUSTMENT

		Depreciation Rates				
	Accumulated Depreciation	Decision No.			Per	
	<u>Balances</u>	60408	I	er Company	Staff	
301	Organization	n/a		-	_	
302	Franchises	n/a		90	90	-
303	Land & Land Rights	n/a		-	=	
304	Structures & Improvements	3.33%		107,877	107,877	-
307	Wells & Springs	3.33%		513,476	513,476	-
309						
310	Power Generation Equipment	5.00%		4,843	2,664	(2,179)
311	Pumping Equipment	12.50%		975,584	977,333	1,749
320	Water Treatment Equipment	0.00%		439	439	-
320.1	Water Treatment Plant	3.33%		-	-	_
320.2	Solution Chemical Feeders	20.00%		-	-	-
330	Dist. Reservoirs & Standpipes	0.00%		767,384	767,384	_
330.1	Storage Tanks	2.22%		-	´-	_
330.2	Pressure Tanks	5.00%		-	-	_
331	Transmission & Distribution Mains	2.00%		987,069	987,069	-
333	Services	3.33%		90,179	90,179	_
334	Meters & Meter Installation	8.33%		111,940	111,940	_
335	I lydrants	2.00%		171,064	171,064	_
336	Backflow Prevention Devices	6.67%		-	-	_
339	Other Plant & Misc Equipment	0.00%	1	881	881	_
340	Office Furniture & Equipment	6.67%		1,179	1,179	_
340.1	Computers & Software	20.00%		3,554	3,554	_
341	Transportation Equipment	20.00%		(45,787)	(45,787)	_
342	Stores Equipment	4.00%		-	-	_
343	Tools, Shop, & Garage Equipt	5.00%		4,280	4,280	_
344	Laboratory Equipment	10.00%		=		_
345	Power Operated Equipment	5.00%		262	262	-
346	Communication Equipment	10.00%		2,461	2,461	_
347	Miscellaneous Equipment	10.00%		-	· -	_
348	Other Tangible Plant	2.50%		-	-	-
	-		S	3,696,775	3,696,345 \$	(430)

**Amount** 

Accumulated Depreciation - Per Company, Page 15

Accumulated Depreciation - Per Staff

\$3,696,776 \_\_\_\_3,696,345

Adjustment

(\$431)

В

(2,179)

#### Accumulated Depreciation Adjustment Conforming to Plant Adjustment

Effectiive Depreciation

0.0334

rate Plant Adjustment Time Period Adustment

(26,094)

311 Pumping Equipment

0.0334	34,911	1.50	1,749

2.50

310 Power Generation Equipment

Docket No. W-01677A-16-0074 (Fin) & 0076 (rates)

Test Year Ended December 31, 2015

## STATEMENT OF OPERATING INCOME 2.2

	Company Exhibit	Staff Adjustments	Staff Adjusted
Revenues:			
461 Metered Water Revenue	\$683,735 \$		\$683,735
000 Inclining Usage Revenue	13,314	(13,314) A	-
474 Other Water Revenues	<del>-</del>	-	
Total Operating Revenue	\$697,049	(\$13,314)	\$683,735
Operating Expenses:			
601 Salaries and Wages	45,000	-	45,000
604 Employee Pension & Benefits	=		-
610 Purchased Water	-	-	_
615 Purchased Power	244,703	-	244,703
618 Chemicals	-	-	_
620 Repairs and Maintenance	13,049	-	13,049
621 Office Supplies & Expense	7,340	-	7,340
630 Outside Services	212,476	_	212,476
635 Water Testing	430	17 B	447
427.2 Customer Security Deposit Interest	-	_	-
641 Rents	16,104	-	16,104
650 Transportation Expenses	-	_	=
657 Insurance - General Liability	5,929	en e	5,929
659 Insurance - Health and Life	4,218	-	4,218
666 Rate Case Expense	8,333	-	8,333
675 Miscellaneous Expense	769	-	769
403 Depreciation Expense	98,195	3,059 C	101,254
408 Taxes Other Than Income	3,443		3,443
408.11 Property Taxes	27,990	(564) D	27,426
409 Income Tax	1,970	(5,409) E	(3,439)
Total Operating Expenses	689,949	(2,897)	687,052
OPERATING INCOME/(LOSS)	\$7,100	(\$10,417)	(\$3,317)



Λ	INCLINING USAGE - Per Company Per Staff	\$13,314 0	(\$13,314)
-	Decrease test year revenues to -0- inclining usage		
В -	WATER TESTING - Per Company Per Staff	\$430 447	\$17
	To recognize the average on-going water testing expenses.		
С -	DEPRECIATIONPer Company Per Staff	\$98,195 101,254	\$3,059
	To conform to plant adustments		
D	PROPERTY TAXES - per Company Per Staff	\$27,990 27,426	(\$564)
	To reflect application of the modified version of the ADOR property tax methodological	gy.	
Е	INCOME TAXES - per Company Per Staff	\$1,970 (3,439)	(\$5,409)

To reflect allowance for S-Corporation Income taxes.

Turner Ranches Water and Sanitation Company Docket Nos. W-01677A-16-0074 (Fin) & 0076 (rates) Test Year Ended December 31, 2015

Schedule MJR-3 Page 3 of 5

#### OPERATING INCOME ADJUSTMENT D - DEPRECIATION EXPENSE

LINE <u>NO.</u>	DESCRIPTION	[A] COMPANY PROPOSED	[B] staff <u>adjustments</u>	[C] staff recommended	[D]	[E]	[F]
1	Depreciation Expense	\$ 98,195	\$ 3,059	\$ 101,254			

1,419,198

Line No.	ACCT NO. DESCRIPTION	PLAN	any Proposed IT IN SERVICE ALANCE	E	STAFF PLANT BALANCE		Non-Depreciable Fully Depreciated Plant	DE	STAFF PR. PLANT SALANCE	STAFF RECOMMENDEL RATE	O R	STAFF ECOMMENDED EXPENSE
1	Plant In Service				DILLIN (GE		7.10.12		THE RESERVE	KITE		LINI BINGL
2	301 Organization	\$	606		606	\$	606	\$	_	0.009	% <b>\$</b>	
3	302 Franchises	•	771		77 <b>1</b>	Š	771	*	_	0.009	-	
4	303 Land & Land Rights		30,096		30,096	\$	30,096		_	0.009		
5	304 Structures & Improvements		121,993		121,993	\$	102,976		19,017	3.339		633
6	307 Wells & Springs		683,579		683,579	•	501,213		182,366	3,339		6,073
7	310 Power Generating Equipment		97,137		71,043		501,215		71,043	5.009		3,552
8	311 Pumping Equipment		1,384,287		1,419,198		797,821		621,377	12.50%		77,672
9	320.1 Water Treatment Plants		439		439		439		021,577	3.339		11,012
10	320.2 Solution Chemical Feeders		-		-		-		_	20.009		
11	330 Dist. Reservoirs & Standpipes		781,699		781,699		765,235		16,464	2.229		366
12	330.1 Storage Tanks		-		-		.00,200		-	2.229		-
13	330.2 Pressure Tanks		~		_				_	5.009		
14	331 Transmission & Distribution Mains		1,021,190		1,021,190		983,337		37,853	2.009		757
15	333 Services		100,441		100,441		89,641		10,800	3.339		360
16	334 Meters & Meter Installations		133,054		133,054		108,455		24,599	8.339		2,049
17	335 Hydrants		210,874		210,874		133,168		77,706	2.009		1,554
18	336 Backflow Prevention Devices		,		,					6.679		1,55 (
19	339 Other Plant and Misc. Equipment		5,344		5,344				5,344	6.679		356
20	340 Office Furniture & Equipment		6,852		6,852		659		6,193	6.679		413
	340.1 Computers & Software		6,514		6,514		-		6,514	20.009		1,303
21	341 Transportation Equipment		27,742		27,742		_		27,742	20.009		5,548
22	343 Tools Shop & Garage Equipment		7,016		7,016		_		7,016	5.009		351
23	344 Laboratory Equipment		-,		-,020		_		-	10.009		551
24	345 Power Operated Equipment		263		263		263			5.009		
25	346 Communication Equipment		2,668		2,668		-		2,668	10.009		267
26	347 Miscellaneous Equipment		_,		_,		_		2,000	10.009		201
27	348 Other Tangible Plant		_		-		_		_	2.50%		_
28			_		_				_	200	, •	_
29					-				_			
30	Subtotal General	\$	4,622,565	\$	4,631,382	\$	3,514,680	\$	1,116,702		\$	101,254
31	Less: Non- depreciable Account(s)		31,473	-	3,514,680	•	3,514,679	*	-,,		•	101,231
32	Depreciable Plant (L29-L30)	\$	4,591,092	\$	1,116,702		-,,	\$	1,116,702			
33	1 ,		, , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	-,,			
34	Contributions-in-Aid-of-Construction (	CIAC)								\$ -		
35	Weighted Average Depreciation/Amor	tization Ra	te							9.06729	%	
36	Less: Amortization of CIAC (L32 x I	L33)									s	
37	Depreciation Expense - STAFF	•									\$	101,254
38												

#### Pro Forma Depreciation Expense Calculation

Plant in Service	\$	4,631,382
Less:		
Non-Depreciable plant		3,514,680
Depreciable Plant	\$	1,116,702
Times: Staff weighted average depreciatio	í	9.0672%
Depreciation expense before amortization		101,254
Less: Amortization of CIAC		-
Test Year Depreciation - Staff		101,254
Depreciation expense - Company		98,195
Staff recommended adjustment	\$	3,059

#### Turner Ranches Water and Sanitation Company

Docket Nos. W-01677A-16-0074 (Fin) & 0076 (rates) Test Year Ended December 31, 2015

## OPERATING INCOME ADJUSTMENT H - PROPERTY TAXES--S-CORP

[B]

LINE			STAFF		STAFF
NO.	Property Tax Calculation	AS	ADJUSTED	RECOM	IMENDED
		•	<00 T05	_	COA 77.5
1	Staff Adjusted Test Year Revenues - 2015	\$	683,735	\$	683,735
2	Weight Factor		2		2
3	Subtotal (Line 2 * Line 3)	\$	1,367,470	\$	1,367,470
4	Staff Adjusted Test Year Revenues - 2015		683,735		
5	Staff Recommended Revenue, Per Schedule MJR-1				837,553
6	Subtotal (Line 3 + Line 4)	\$	2,051,205	\$	2,205,023
7	Number of Years		3_		3_
8	Three Year Average (Line 6 / Line 7)	\$	683,735	\$	735,008
9	Department of Revenue Mutilplier		2		2
10	Revenue Base Value (Line 8 * Line 9)	\$	1,367,470	\$	1,470,015
11	Plus: 10% of CWIP -				-
12	Less: Net Book Value of Licensed Vehicles		73,529		73,529
13	Full Cash Value (Line 10 + Line 11 - Line 12)	\$	1,293,941	\$	1,396,486
14	Assessment Ratio		18.0%		18.0%
15	Assessment Value (Line 13 * Line 14)		232,909	\$	251,367
16	Composite Property Tax Rate (Company Property Tax ÷ Assessment Value)		11.7753%		11.7753%
17					
18	Staff Proposed Property Tax Expense (Line 15 * Line 16)	\$	27,426		
19	Company Proposed Property Tax		27,990		
20					
21	Staff Test Year Adjustment (Line 18-Line 19)	\$	(564)		
22	Property Tax - Staff Recommended Revenue (Line 15 * Line 16)			\$	29,599
23	Staff Test Year Adjusted Property Tax Expense (Line 18)			\$	27,426
24	Increase/(Decrease) to Property Tax Expense			\$	2,173
25					
26	Increase/(Decrease) to Property Tax Expense			\$	2,173
27	Increase in Revenue Requirement				153,818
28	Increase/(Decrease) to Property Tax per Dollar Increase in Revenue (Line26/Line 27)				1.413036%
29	, , , , , , , , , , , , , , , , , , ,				
30	Increase in Revenue Requirement				
31	1				

31 32 33

34 References:

35 Col [A]: Company

36 Col [B]: Staff Report

37

#### S-Corp Tax Calculation

LINE		(A)	(B)	(C)
<u>NO.</u>	DESCRIPTION			
1	Calculation of Gross Revenue Conversion Factor:			
2	Revenue	100.0000%		
3	Uncollecible Factor (Line 14)	0.0000%		
4 5	Revenues (L1 - L2) Combined Federal and State Income Tax and Property Tax Rate (Line 30)	20.3451%		
6	Subtotal (L3 - L4)	79.6549%		
7	Revenue Conversion Factor (L1 / L5)	1.255415		
8				
9	Calculation of Uncollectible Factor. Unity	100.0000%		
10 11	Combined Federal and State Tax Rate (Line 22)	19.20%		
12	One Minus Combined Income Tax Rate (L11 - L12)	80.80%		
13	Uncollectible Rate	0.0000%		
14	Uncollectible Factor (L9 * L10)	0.0000%		
15 16	Calculation of Effective Tax Rate:			
17	Operating Income Before Taxes (Arizona Taxable Income)	100.0000%		
18	Arizona State Income Tax Rate	3.2090%		
19	Federal Taxable Income (L17 - L18)	96.7910%		
20	Applicable Federal Income Tax Rate (Line 82)	16.5246% 15.9943%		
21 22	Effective Federal Income Tax Rate (L19 x L20) Combined Federal and State Income Tax Rate (L18 +L21)	13.994370	19.20%	,
23	Combined redefin and outer meeting rate (210 - 222)	:		=
24	Calculation of Effective Property Tax Factor			
25	Unity	100.00%		
26	Combined Federal and State Income Tax Rate (L22)	19.20%		
27 28	One Minus Combined Income Tax Rate (L25-L26) Property Tax Factor (MJR-W17, L27)	80.80% 1.41%		
29	Effective Property Tax Factor (L27*L28)	1.14%		
30	Combined Federal and State Income Tax and Property Tax Rate (L22+L29)		20.35%	<u>-</u>
31				
32	Provided Control of the Language Colored to MIP 1)	\$ 112,204		
33 34	Required Operating Income (Schedule Summary Schedule MJR-1) AdjustedTest Year Operating Income (Loss) (Schedule MJR-1)	\$ (3,317)		
35	Required Increase in Operating Income (L33 - L34)		\$ 115,522	_
36				=
37	Income Taxes on Recommended Revenue (Col. C, L65)	\$ 24,018		
38	Income Taxes on Test Year Revenue (Col. A, L65)	\$ (3,439)	\$ 27,457	
39 40	Required Increase in Revenue to Provide for Income Taxes (L37 - L38)	:	21,431	=
41	Recommended Revenue Requirement (Schedule MJR-1)	\$ 828,763		
42	Uncollectible Rate (Line 13)	0.0000%		
43	Uncollectible Expense on Recommended Revenue (L41 * L42)	<b>\$</b> -		
44	Adjusted Test Year Uncollectible Expense Required Increase in Revenue to Provide for Uncollectible Exp. (L43 - L45)	\$ -	•	
45 46	Property Tax with Recommended Revenue (Schedule S-Prop Taxes L22)	\$ 29,475	•	=
47	Property Tax on Test Year Revenue (Schedule S-Prop Taxes L18)	\$ 27,426		
48	Increase in Property Tax Due to Increase in Revenue (L46-47)		\$ 2,049	=
49				_
50	Total Required Increase in Revenue (L35 + L39 + L45 + L48)	Test Year	\$ 145,028	Staff Recommended
51 52	Calculation of Income Tax:	\$ 683,735	<b>\$</b> 145,028	
53	Revenue (Schedule MJR-1) Operating Expenses Excluding Income Taxes	\$ 690,491		\$ 692,540
54	Synchronized Interest	\$ 17,953		\$ 17,953
55	Arizona Taxable Income (L52 - L53 - L54)	\$ (24,709)		\$ 118,270
56	Arizona State Income Tax Rate Married Filing Jointly	\$ 3.21%		\$ 3.21%
57 58	0-\$20,325 x .0259 \$20,325 to \$50,812 x .0288 minus \$59.00	\$ (771)		\$ -
59	\$50,812 to \$101,623 x .0336 minus \$303.00	\$ -		\$ -
60	\$101,623 to \$304868 x .0424 minus \$1,197.00	\$ -		\$ 3,818
61	\$304,868 and over x .00454 minus \$2,112.00	\$ -		\$ -
62	Subtotal Arizona Income Tax Federal Taxable Income (L55 - L57)	\$ (771) \$ (23,938)		\$ 3,818 \$ 114,452
63 64	Federal Tax on First Income Bracket (\$1 - \$18,450) @ 10%	\$ (23,730) \$ (1,845)		\$ 1,845
65	Federal Tax on Second Income Bracket (\$18,451 - \$74,900) @ 15%	\$ (823)		\$ 8,467
66	Federal Tax on Third Income Bracket (\$74,901 - \$151,200) @ 25%	<b>\$</b> -		\$ 9,888
67	Federal Tax on Fourth Income Bracket (\$151,201 - \$230,450) @ 28% Federal Tax on Fifth Income Bracket (\$230,451 -\$411,500) @ 33%	\$ - \$ -		\$ - \$ -
68	Federal Tax on Sixth Income Bracket (\$411,501 -\$464,850) @ 35%	\$ -		\$ -
	Federal Tax on Seventh Income Bracket (\$464,851 -or more) @ 39.6%	\$ -		\$ -
69	Total Federal Income Tax	\$ (2,668)		\$ 20,200
70	Combined Federal and State Income Tax (L62 + L69)	\$ (3,439)	:	\$ 24,018
71				

MJR-4

			Present	Pr	posed	Recommended
			Rates	Co	mpany	Staff
Residential Ir.	rigation - Flat Rate		\$22.14		26.10	\$26.54
Surcharge	~		\$0.00		\$5.70	\$0.00
Residential Ir	rigation Service - Per Acre - Per Year	\$	781.26	\$ 9	221.11	\$936.77
Private Fire P	rotection					
Flat Rate pe	Inch in Diameter of Service Connection	\$	18.50	\$	21.81	\$22.18
Metered Irag	ation Service					
1-1/2"	Meter	\$	111.06	\$ :	130.94	\$133.17
2"	Meter	\$	111.06			\$133.17
3"	Meter				130.94	\$133.17
4"	Meter				130.94	\$133.17
6"	Meter	\$	111.06	S :	130.94	\$133.17
3"	Meter	\$	111.06			\$133.17
10"	Meter	\$	111.06			\$133.17
Gallons Inclu	ded in Monthly Usage Charge		0.00			
Commodity C	harge - In Excess of Minimum - 1,000 gallons	\$	0.80	\$	0.96	\$0.98
Mctered Cons	truction Water					
1"	Meter	\$	33.04	\$	38.95	\$39.61
2"	Meter	\$	96.31	\$ 1	13.55	\$115.48
Commodi <del>ty</del> C	harge - Construction Water	\$	1.66		2.00	\$2.03
	g:Company states that these charges are nto being used p	resently and are no	t proposed.	, Stat	f recom	mends that this be removed fr
	on file with the Arizona Corporation Commission					
5/8" x 3/4"	Meter	\$	25		N/T	N/T
3/4"	Meter	\$	25		N/T	N/T
1"	Meter	\$	30		N/T	N/T
1/2"	Meter	\$	40		N/T	N/T
2"	Meter	\$	45		N/T	N/T
	Meter	_	N/A		N/T	N/T
	Meter	\$	120		N/T	N/T
·"	Meter	\$	180		N/T	N/T
3"	Meter	\$	200		N/T	N/T
10"	Meter	\$	220		N/T	N/T
	Y SURCHARGES FROM DECISION NO. 62319	VARI		N/I		J/T

Service Line and Meter Installation Charges

	Pre	sent	P	resent			Company	Company		Staff	Staff	
	Service Meter		Proposed			Company	Recommended	Recommended	Staff			
		ne	_	tallation			Service Line	Installation	Proposed	Service Line	Meter Installation	Recommended
	Cha	rges	C	harges	Pre	sent Total		Charges	Total	Charges	Charges	Total
5/8" x 3/4" Meter	s	-	\$	400	\$	400	N/A	At Cost	\$ -	N/A	At Cost	8 -
3/4 inch Meter	\$	-	s	440	\$	440	N/A	At Cost	\$ -	N/A	At Cost	S -
1" Meter	\$		S	500	\$	500	N/A	At Cost	\$ -	N/A	At Cost	8 -
1½" Meter	\$	-	S	715	\$	715	N/A	At Cost	S -	N/A	At Cost	\$ -
2" Meter Turbo	\$	-	\$	715	\$	715	N/A	At Cost	\$ -	N/A	At Cost	S -
2" Meter Compound	8	-	\$	1,700	\$	1,700	N/A	At Cost	S -	N/A	At Cost	\$ -
3" Meter Turbo	5		\$	1,585	\$	1,585	N/A	At Cost	\$ -	N/A	At Cost	S -
3" Meter Compound	\$		\$	2,190	\$	2,190	N/A	At Cost	\$ -	N/A	At Cost	\$ -
4" Meter Turbo	\$	-	\$	2,540	\$	2,540	N/A	At Cost	\$ -	N/A	At Cost	\$ -
4" Meter Compound	\$	-	\$	3,215	S	3,215	N/A	At Cost	\$ -	N/A	At Cost	\$ -
6" Meter Turbo	\$		S	4,915	8	4,915	N/A	At Cost	\$ -	N/A	At Cost	\$ -
6" Meter Compound	\$	-	S	6,270	8	6,270	N/A	At Cost	S -	N/A	At Cost	\$ -
8" & Larger							N/A	At Cost		N/A	At Cost	

1 Mete
1½" Mete
2" Meter Turbo
2" Meter Compound
3" Meter Turbo
3" Meter Compound
4" Meter Turbo
4" Meter Compound
6" Meter Turbo
6" Meter Compound
8" & Larger
9

		Present Proposed Rates Company				Recommended Staff		
Service Charges					_			
Establishment	\$	20.00	\$	20.00		S	20.00	
Establishment (After Hours)	\$	30.00		N/T			N/T	
Reconnection (Delinquent)	\$	20.00	\$	20.00		5	20.00	
Meter Test (If Correct)	\$	25.00	\$	25.00		\$	25.00	
Deposit		*		*			*	
Deposit Interest		*		*			*	
Re-Establishment (Within 12 Months)		**		**			**	
NSF Check	5	15.00	5	15.00		s	15.00	
Deferred Payment		***		***			***	
Meter Re-Read (If Correct)	\$	15.00	\$	15.00		s	15.00	
Late Fee		1.50%		1.50%			1.50%	
After Hours Service Charge		N/T	S	50.00		s	50.00	
Moving Customer Meter (Customer		x - /:::						
Request)		N/T		Cost			Cost	

Staff

Turner Ranches Water and Sanitation Company Docket No. W-01677A-16-0074 (Fin) & 0076 (rates) December 31, 2015

Test Year Ended

#### Typical Bill Analysis

#### Unmetered Residential Irrigation

		]			oposed tes Incl	Ι	Oollar	Percent
	Gallons				rcharge	In	crease	Increase
	Flat Rate	\$	22.14	\$	26.10	\$	3.96	17.89%
Surcharge Total	Flat Rate	\$	22.14	\$	5.70 31.80	\$	5.70 9.66	43.63%
Staff Recommended								
	Flat Rate	\$	22.14	\$	26.54	\$	4.40	19.87%
Surcharge	Flat Rate		-		-	\$	-	

#### Present & Proposed Rates (Without Taxes)

Company

Gallons	Present	Proposed %  3/4 -Inch Meter  Rates Increase		Recommended	%	
	3/4 -Inch Meter			3/4 -Inch Meter		
Consumption	Rates			Rates Increase		
_	\$ 22.14	\$ 26.10	17.89%	\$ 26.54	19.87%	
1,000	22.14	26.10	17.89%	26.54	19.87%	
2,000	22.14	26.10	17.89%	26.54	19.87%	
3,000	22.14	26.10	17.89%	26.54	19.87%	
3,500	22.14	26.10	17.89%	26.54	19.87%	
4,000	22.14	26.10	17.89%	26.54	19.87%	
5,000	22.14	26.10	17.89%	26.54	19.87%	
5,100	22.14	26.10	17.89%	26.54	19.87%	
6,800	22.14	26.10	17.89%	26.54	19.87%	
7,800	22.14	26.10	17.89%	26.54	19.87%	
8,800	22.14	26.10	17.89%	26.54	19.87%	
9,800	22.14	26.10	17.89%	26.54	19.87%	
10,800	22.14	26.10	17.89%	26.54	19.87%	
11,800	22.14	26.10	17.89%	26.54	19.87%	
12,800	22.14	26.10	17.89%	26.54	19.87%	
13,800	22.14	26.10	17.89%	26.54	19.87%	
14,800	22.14	26.10	17.89%	26.54	19.87%	
15,800	22.14	26.10	17.89%	26.54	19.87%	
16,800	22.14	26.10	17.89%	26.54	19.87%	
17,800	22.14	26.10	17.89%	26.54	19.87%	
18,800	22.14	26.10	17.89%	26.54	19.87%	
19,800	22.14	26.10	17.89%	26.54	19.87%	
20,800	22.14	26.10	17.89%	26.54	19.87%	
25,800	22.14	26.10	17.89%	26.54	19.87%	
30,800	22.14	26.10	17.89%	26.54	19.87%	
35,800	22.14	26.10	17.89%	26.54	19.87%	
40,800	22.14	26.10	17.89%	26.54	19.87%	
45,800	22.14	26.10	17.89%	26.54	19.87%	
50,800	22.14	26.10	17.89%	26.54	19.87%	
75,800	22.14	26.10		26.54	19.87%	
100,800	22.14	26.10		26.54	19.87%	

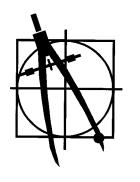
ROPOSED LOAN AMORTIZ				to prince in the English specific
W 77	- 2		25 1.00	9 75 75 10 10 10 10 10 10 10 10 10 10 10 10 10
Loan Amount Requested	\$450,000			
Down Payment:	\$0			
Amount Financed:	\$450,000			
Number of years:	10	Compounding Periods:	12	
Interest rate (r):	5.25%	APR:	5_38%	

LOAN AMORTIZATION SCHEDULE								
		Beginning-	Payr		End-of-month			
	Loan payment	of-month principal	Interest [r*(2)]	Principal [(1) ~ (3)]	principal [(2) - (4)]	Annual Interest	Annual Principal	Annual Debt Payment
Period	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1 2	\$4,828.13 4,828.13	\$450,000.00 447,140.62	\$1,968.75 1,956.24	\$2,859.38 2,871.89	\$447,140.62 444,268.74			
3	4,828.13 4,828.13	444,268.74 441,384.29	1,943.68 1,931.06	2,884.45 2,897.07	441,384.29 438,487.22			
5	4,828.13 4,828.13	438,487.22 435,577,47	1,918.38	2,909.75 2,922.48	435,577.47 432,654.99			
7	4,828.13 4,828.13	432,654.99 429,719.73	1,892.87 1,880.02	2,935.26 2,948.10	429,719.73 426,771.63			
9	4,828.13 4,828.13	426,771.63 423,810.63	1,867.13 1,854.17	2,961.00 2,973.96	423,810.63 420,836.67			
10	4,828.13	420,836.67	1,841.16	2,986.97 3,000.03	417,849.71 414,849.67	22,787.19	35,150.33	57.937.52
12 13	4,828.13 4,828.13	417,849.71 414,849.67	1,814.97	3,013.16	411,836.51	22,101.19	33,130.33	3.433.22
14 15	4,828.13 4,828.13	411,836.51 408,810.17	1,801.78 1,788.54	3,026.34 3,039.58	408,810.17 405,770.59			
16 17	4,828.13 4,828.13	405,770.59 402,717.71	1,775.25 1,761.89	3,052.88 3,066.24	402,717.71 399,651.47			
18 19	4,828.13 4,828.13	399,651.47 396,571.82	1,748.48 1,735.00	3,079.65 3,093.13	396,571.82 393,478.70			
20 21	4,828.13 4,828.13	393,478.70 390,372.04	1,721.47 1,707.88	3,106.66 3,120.25	390,372.04 387,251.79			
22 23	4,828.13 4.828.13	387,251.79 384,117.89	1,694.23 1,680.52	3,133.90 3,147.61	384,117.89 380,970.28			
24 25	4,828.13 4,828.13	380,970.28 377,808.90	1,666.74 1,652.91	3,161.38 3,175.21	377,808.90 374.633.68	20,896.74	37,040.78	57,937.52
26 27	4,828.13 4,828.13	374,633.68 371,444.58	1,639.02 1,625.07	3,189.10 3,203.06	371,444.58 368,241.52			
28	4,828.13	368,241.52	1,611.06 1,596.98	3,217.07 3,231.14	365,024.45 361,793.31			
29 30	4,828.13 4,828.13	365,024.45 361,793.31	1,582.85	3,245.28	358,548.03			
31 32	4,828.13 4,828.13	358,548.03 355,288.55	1,568.65 1,554.39	3,259.48 3,273.74	355,288.55 352,014.81			
33 34	4,828.13 4,828.13	352,014.81 348,726.75	1,540.06 1,525.68	3,288.06 3,302.45	348,726.75 345,424.30			
35 36	4,828.13 4,828.13	345,424.30 342,107.40	1,511.23 1,496.72	3,316.90 3,331.41	342,107.40 338,776.00	18,904.62	39,032.90	57,937.52
37 38	4,828.13 4,828.13	338,776.00 335,430.02	1,482.14 1,467.51	3,345.98 3,360.62	335,430.02 332,069.40			
39 40	4,828.13 4,828.13	332,069.40 328,694.07	1,452.80 1,438.04	3,375.32 3,390.09	328,694.07 325,303.98			
41	4,828.13	325,303.98	1,423.20	3,404.92 3,419.82	321,899.06 318,479.24			
42 43	4,828.13 4,828.13	321,899.06 318,479.24	1,393.35	3,434.78	315,044.46			
44 45	4,828.13 4,828.13	315,044.46 311,594.65	1,378.32 1,363.23	3,449.81 3,464.90	311,594.65 308,129.75			
46 47	4,828.13 4,828.13	308,129.75 304,649.70	1,348.07 1,332.84	3,480.06 3,495.28	304,649.70 301,154.41			
48 49	4,828.13 4,828.13	301,154.41 297,643.84	1,317.55 1,302.19	3,510.58 3,525.93	297,643.84 294,117.90	16,805.36	41,132.16	57,937.52
50 51	4,828.13 4,828.13	294,117.90 290,576.54	1,286.77 1,271.27	3,541.36 3,556.85	290,576.54 287,019.68			
52 53	4,828.13 4.828.13	287,019.68 283,447.27	1,255.71 1,240.08	3,572.42 3,588.04	283,447.27 279,859.22			
54 55	4,828.13 4,828.13	279,859.22 276,255.48	1,224.38	3,603.74 3,619.51	276,255.48 272,635.97			
56 57	4,828.13 4,828.13	272,635.97 269,000.63	1,192.78 1,176.88	3,635.34 3,651.25	269,000.63 265,349.38			
58	4,828.13	265,349.38	1,160.90	3,667.22 3,683.27	261,682.16 257,998.89			
59 60	4,828.13 4,828.13	261,682.16 257,998.89	1,128.75	3,699.38	254,299.51	14,593.19	43,344.33	57,937.52
61 62	4,828.13 4,828.13	254,299.51 250,583.94	1,112.56 1,096.30	3,715.57 3,731.82	250,583.94 246,852.12			
63 64	4,828.13 4,828.13	246,852.12 243,103.97	1,079.98 1,063.58	3,748.15 3,764.55	243,103.97 239,339.42			
65 66	4,828.13 4,828.13	239,339.42 235,558.41	1,047.11	3,781.02 3,797.56	231,760.85			
67 68	4,828.13 4,828.13	231,760.85 227,946.67	1,013.95 997.27	3,814.17 3,830.86	227,946.67 224,115.81			
69 70	4,828.13 4,828.13	224,115.81 220,268.19	980.51 963.67	3,847.62 3,864.45	220,268.19 216,403.74			
71 72	4,828.13 4.828.13	216,403.74 212,522.38	946.77 929.79	3,881.36 3,898.34	212,522.38 208,624.04	12,262.05	45,675.47	57,937.52
73 74	4,828.13 4,828.13	208,624.04 204,708.64	912.73 895.60	3,915.40 3,932.53		,		
75 76	4,828.13 4,828.13	200,776.12 196,826.39	878.40 861.12	3,949.73 3,967.01	196,826.39 192,859.37			
77	4,828.13	192,859.37 188,875.01	843.76 826.33	3,984.37 4,001.80	188,875.01			
78 79	4,828.13 4,828.13	184,873.21	806.82	4,019.31	180,853.90			
80 81	4,828.13 4,828.13	180,853.90 176,817.01	791.24 773.57	4,036.89 4,054.55	172,762.46			
82 83	4,828.13 4,828.13	172,762.46 168,690.17	755.84 738.02	4,072.29 4,090.11	168,690.17 164,600.06			
84 85	4,828.13 4,828.13	164,600.06 160,492.06	720.13 702.15	4,108.00 4,125.97		9,805.54	48,131.98	57,937.52
86 87	4,828.13 4,828.13	156,366.08 152,222.06	684.10 665.97	4,144.03 4,162.16	152,222.06 148,059.90			
88 89	4,828.13 4,828.13	148,059.90 143,879.54	647.76 629.47	4,180.36 4,198.65				
90 91	4,828.13 4.828.13	139,680.89 135,463.86	611.10 592.65	4,217.02 4,235.47	135,463.86 131,228.39			
92 93	4,828.13 4,828.13	131,228.39 126,974.39	574.12 555.51	4,254.00 4,272.61	126,974.39			
94 95	4,828.13 4,828.13	122,701.77 118,410.47	536.82 518.05	4,291.31 4,310.08	118,410.47			
96 97	4,828.13 4,828.13	114,100.39 109,771.45	499.19 480.25	4,328.94 4,347.88	109,771.45	7,216.91	50,720.61	57,937.52
98	4,828.13	105,423.57	461.23	4,366.90 4,386.00	101,056.67			
99 100	4,828.13 4,828.13	101,056.67 96,670.67	442.12 422.93	4,405.19	92,265.48			
101 102	4,828.13 4,828.13	92,265.48 87,841.01	403.66 384.30	4,424.47 4,443.82	83,397.19			
103 104	4,828.13 4,828.13	83,397.19 78,933.93	364.86 345.34	4,463.26 4,482.75	74,451.14			
105 106	4,828.13 4,828.13	74,451.14 69,948.73	325.72 306.03	4,502.40 4,522.10	65,426.63			
107 108	4,828.13 4,828.13	65,426.63 60,884.75	286.24 266.37	4,541.85 4,561.76	56,322.99	4,489.06	53,448.46	57,937.52
109 110	4,828.13 4,828.13	56,322.99 51,741.28	246.41 226.37	4,581.71 4,601.76	51,741.28			
111	4,828.13 4,828.13	47,139.52 42,517.63	206.24 186.01	4,621.89 4,642.11	42,517.63			
113 114	4,828.13 4,828.13	37,875.51 33,213.09	165.71 145.31	4,662.42 4.682.82	33,213.09			
115	4,828.13	28,530.27 23,826.97	124.82 104.24	4,703.31 4,723.88	23,826.97			
116 117	4,828.13 4,828.13	19,103.08	83.58	4,744.55	14,358.53			
118	4,828.13 4,828.13	14,358.53 9,593.22	62.82 41.97	4,765.31 4,786.10 4,807.10	4,807.07	1,614,50	56,323.00	57,937.52
120	4,828.13	4,807.07	21.03	4,007.10	, (0.03)	1,014.30	30,323.04	

Turner Ranches Water and Sanitation Company Docket Nos. W-01677A-16-0074 (Fin) & 0076 (rates)

Test Year Ended December 31, 2015

		• CASH FLO	OW ANALYSIS	W	
Line			Company Proposed	Staff Recommentd	
No.			Proposed Loan and SC	W/Proposed Loan	
	Cash Inflows				
1	461 Metered Water Revenue		\$815,769	\$828,763	
	000 Inclining Usage Revenue		16,030	-	
1	474 Other Water Revenues		-	-	
2	Surcharge		65,859		
3	Total Revenue		897,658	828,763	
	Cash Outflows				
4	601 Salaries and Wages		45,000	45,000	
5	610 Purchased Water		-	-	
6	615 Purchased Power		244,703	244,703	
7	618 Chemicals		-	-	
8	620 Repairs and Maintenance		13,049	13,049	
9	621 Office Supplies & Expense		7,340	7,340	
10	630 Outside Services		212,476	212,476	
11	635 Water Testing		430	447	
12	427.2 Customer Security Deposit Interest		-	-	
	641 Rents		16,104	16,104	
13	650 Transportation Expenses		-	=	
14	657 Insurance - General Liability		5,929	5,929	
15			4,218	4,218	
16			8,333	8,333	
17	675 Miscellaneous Expense		769	769	
18	403 Depreciation Expense		101,973	101,254	
19	408 Taxes Other Than Income		3,443	3,443	
20	408.11 Property Taxes		29,894	29,475	
21	409 Income Tax		40,742	24,018	
22	Total Expenses		734,403	716,558	
23	Operating Income		163,255	112,204	
24	Plus: Depreciation Expense		101,973	101,254	
25	Less: Loan Payment Interest		24,750	22,787	
26	Less: Loan Payment Principal		34,965	35,150	
27	AIAC Refunds		-	- -	
28	Cash Flow from Operations		205,513	155,521	
29					
30			205,513	155,521	
	Operating Income		163,255	112,204	
	CAPITAL STRUCTURE				
	<u> </u>	Proposed		Recommended	
	Short Term Debt	\$ 34,965	2.83%	\$ 35,150	2.859
		\$ 415,035		\$ 414,850	33.62%
	Long Term Debt				
	Stockholders Equity	\$ 783,915	-	\$ 783,915	63.53%
		\$ 1,233,915	100.00%	\$ 1,233,915	100.00%



Engineering Report for Turner Ranches Water and Sanitation Company Application

Docket No. W-01677A-16-0074 (Financing) Docket No. W-01677A-16-0076 (Rates)

By Frank M. Smaila Utilities Engineer

May 23, 2016

#### **CONCLUSIONS**

- A. Turner Ranches Water and Sanitation Company ("Turner Ranches" or "Company") is a Class D water utility company.
- B. The Company's rate and financial applications were consolidated by the Hearing Division on May 5, 2016.
- C. The Company's water system only provides irrigation and fire protection services.
- D. The Company's water system consists of five wells, two booster stations, 221 fire hydrants and a distribution system serving four customers during the test year ending December 31, 2015.
- E. The Company had a water loss of 0.02 percent during the test year 2015, which is within the acceptable limit of 10 percent recommended by Utilities Division Staff ("Utilities Staff" or "Staff").
- F. The Company's system has adequate irrigation and fire protection capacity to serve the current customer base and reasonable growth. The system utilizes a series of lakes instead of storage tanks.
- G. The Company does not anticipate an increase in its customer base or new development in its CC&N within the near future.
- H. The Company does not provide potable water. Therefore, it is not regulated by the Arizona Department of Environmental Quality ("ADEQ").
- I. The Company is located in Arizona Department of Water Resources' ("ADWR") Phoenix Active Management Area ("AMA"). According to the ADWR, this Company is currently not compliant with ADWR's requirements governing water providers and/or community water systems.

- J. According to the Arizona Corporation Commission ("ACC" or "the Commission") Utilities Division compliance database, the Company has no delinquent Commission compliance items.
- K. Staff concludes that the Capital Improvements and Maintenance Projects proposed by the Company and contained in its financial application are appropriate and their associated cost estimates appear to be reasonable.

#### RECOMMENDATIONS

- 1. Staff recommends that the Company install a water meter at the fire and irrigation booster station to register gallons sold to Leisure World residential customers.
- 2. Staff recommends that any increase in rates approved by the Commission not become effective until the first day of the month after the Company files with Docket Control, as a compliance item in this docket, documentation from ADWR indicating that Turner Ranches water system is compliant with departmental requirements governing water providers and/or community water systems (See Section F, ADWR Compliance, for further discussion).
- 3. Staff recommends that the Company continue to use Staff's depreciation rates as delineated in Table 6.
- 4. Staff recommends approval of the meter and installation charges listed under "Company's Requested/Staff Recommended Charges" in Table 7.
- 5. Staff recommends an annual water testing expense of \$447 be used for purposes of this application (See Section I.2, Water Testing Expense, for further discussion).

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#### A. INTRODUCTION

Turner Ranches Water and Sanitation Company's ("Turner Ranches" or "Company") office is located in Apache Junction, Arizona. In 2009, the Company was composed of two divisions, one potable water and one irrigation division. The potable water division was referred to as the Alpine Division. The Arizona Corporation Commission ("ACC" or "the Commission") in Decision No. 71710, dated June 3, 2010, approved the sale of the Alpine Division to the Alpine Domestic Water Improvement District and cancelation of the Company's Alpine Division Certificate of Convenience and Necessity ("CC&N") granted in Decision 57072, dated October 2, 1990. The Company's irrigation division CC&N is located in Apache and Maricopa Counties. Its CC&N in Apache County is comprised of roughly 390 acres or 0.6 square miles and is located approximately 22 miles southeast of Springerville.1 The Company's CC&N in Maricopa County is comprised of roughly 4,425 acres or 6.9 square miles and is located on either side of Power Road between Broadway and Guadalupe Roads in Mesa. Turner Ranches is a Class D water utility company and only provides water for irrigation and fire protection purposes. Figure 1 and 2 shows the location of the Company in relation to other Commission regulated companies in Apache and Maricopa Counties while figures 3 and 4 shows the location of the Company's CC&N within Apache and Maricopa Counties. Figure 5 shows the Company's Maricopa County CC&N in detail.

On March 2, 2016, the Company filed with the ACC a request for a Rate Increase.<sup>2</sup> The Company indicated that its request was necessary because the water system is aging and maintenance costs have increased as well as cost increases due to inflation. The Company further states that its effluent contract with the City of Mesa ended in July 2013. As a consequence, groundwater pumping increased to make up for the loss of effluent. The increase in groundwater pumping rates also increased power requirements and were compounded by Salt River Project ("SRP") significantly increasing their power rates. The Company states, "As a result, the present rates are not allowing the Company to recover its operating expenses and earn a reasonable return on the fair value of its plant." The Company's current rates were approved by Decision No. 60927 (May 26, 1998) as it was amended by Decision No. 62319 (February 17, 2000).

On March 2, 2016, the Company filed a Financing Application with the ACC seeking authorization to borrow \$450,000 from BBVA Compass Bank ("Compass Bank").<sup>4</sup> According to the Company the loan is required to repay First National Management<sup>5</sup> ("FNM") for finances used to upgrade and perform needed maintenance on existing equipment operated by the Company and capital improvement projects necessary to maintain service and reliability of the system.<sup>6</sup>

On March 31, 2016, Staff filed a sufficiency letter indicating that the application had met the sufficiency requirements of the Arizona Administrative Code ("AAC").

<sup>&</sup>lt;sup>1</sup> The Company is approved to provide irrigation services in Apache County. However, it does not have customers in Apache County at this time.

<sup>&</sup>lt;sup>2</sup> Rate Increase Application, (Docket No. W-01677A-16-0076)

<sup>&</sup>lt;sup>3</sup> Rate Increase Application, Narrative Descriptions of Application for Rate Adjustment, Page 3.

<sup>&</sup>lt;sup>4</sup> Financing Application, (Docket No. W-01677A-16-0074)

<sup>&</sup>lt;sup>5</sup> The Company is managed by FNM. The Company pays FNM a management fee as well as rent for the use of the office building and other assets owned by FNM, per page 5 of Rate Application 16-0076.

<sup>&</sup>lt;sup>6</sup> See Section I.3, Capital Improvement Projects, for further discussion.

On May 4, 2016, Staff requested consolidation of the rate and financing cases. On May 5, 2016, a Procedural Order was issued by the Hearing Division consolidating both the rates and financing cases.<sup>7</sup> This Engineering Report constitutes Staff's engineering evaluation relative to the consolidated rate and financing applications.

#### B. DESCRIPTION OF THE WATER SYSTEM

The plant facilities were field inspected on April 12, 2016, and May 14, 2016, by Utilities Division Staff ("Utilities Staff" or "Staff") Frank Smaila in the accompaniment of Mr. Ronny Lopez, water system operator.

The operation of the water system consists of five wells, two booster stations, 221 fire hydrants and a distribution system serving four customers during the test year ending December 31, 2015. The four customers include Leisure World Home Owners Association ("HOA"), Superstition Springs Golf Course, Superstition Springs HOA and Mariposa Gardens<sup>8</sup>. Leisure World HOA includes approximately 963 residences, two golf courses, clubhouse, fire protection and common areas. Detailed plant facility listings are as follows:

Table 1. Well Site Data

Well Site Name	TR-11	TR-10	Recker	Broadway	Taylor		
ADWR No.9	55-518151	55-610824	55-621102	55-621103	55-621104		
Year Constructed	1987	1971	1950 1977		1949		
Casing Size	16 inch	16 inch	18 inch	18 inch 16 inch			
Casing Depth	1500 ft.	1100 ft.	800 ft.	1000 ft.	1040 ft.		
Pump Type	Turbine	Turbine	Turbine	Turbine	Turbine		
Pump Size	150 hp	250 hp	300 hp	300 hp	250 hp		
Pump Yield	550 gpm	980 gpm	1200 gpm	1600 gpm	1050 gpm		
Meter Size	8 inch	10 inch	10 inch *	10 inch	10 inch *		
Well Active/Inactive	Active	Active	Active	Active	Inactive		

Note: \*Calibrated to measure in Acre-Feet.

Table 2. Booster Station Data

<sup>&</sup>lt;sup>7</sup> Consolidated Docket No. W-01677A-16-0074 ET AL.

<sup>&</sup>lt;sup>8</sup> Mariposa Gardens Memorial Park and Funeral Care ("Mariposa Gardens") funeral and cremation center has provided cemetery services since 1999.

<sup>&</sup>lt;sup>9</sup> Arizona Department of Water Resources ("ADWR") Well Identification Number.

Site	Number of Pumps at Station	Horsepower	GPM	Pump Type	Variable Frequency Drive Controlled
Fire & Irrigation Station		75	800	Four Stage Vertical Turbine	Yes
	3	60*	1,060	Three Stage Vertical Turbine	No
		60	700	Three Stage Vertical Turbine	No
Lake 5 Recirculation Station	1	15	400-500	Single Stage Vertical Turbine	No

Note\* According to the operator one of the 60 hp pumps was recently rebuilt and propeller trimmed to produce 1,060 gpm.

Table 3. Water Mains

Diameter	Material	Approximate Length
6 inch	AC	9,800 ft.
8 inch	PVC	5,850 ft
8 inch	AC	45,000 ft
10 inch	AC	18,200 ft
12 inch	AC	5,800 ft.
	Total	84,650 ft.

**Table 4. Customer Meters** 

Size (in inches)	Quantity
5/8 x <sup>3</sup> / <sub>4</sub> , <sup>3</sup> / <sub>4</sub> & 1	0
1-1/2	1
2	2
<b>Compound 3, 4, 6 &amp; 8</b>	0
Turbo 3	1
Tutbo 4	0
Turbo 6	3
Turbo 8	5
Turbo 10	4
Total	16

Table 5. Fire Hydrants

Size	Company Owned	City of Mesa Owned	Totals
Standard	135	86	221
Non Standard	0	0	0

Note: feet ("ft."), horsepower ("hp"), gallon ("gal."), gallon per minute ("GPM" or "gpm"), Polyvinyl Chloride ("PVC"), Asbestos Cement ("AC"), Water System ("WS"), Not Available ("N/A"), Lineal Feet ("LF"), inch ("), Cement Asbestos ("CA"), Ductile Iron Pipe ("DIP"), Booster Pump Station ("BPS"), Storage Tank ("ST"), approximately ("~"), Road ("Rd"), Waterline ("WL"), Avenue ("Ave"), Concrete Lined Cylinder ("CLC"), State Route ("SR"), Street ("Str"), temporary ("temp"), Cast Iron ("CI"), Internet Protocol ("IP"), Variable Frequency Drive ("VFD").

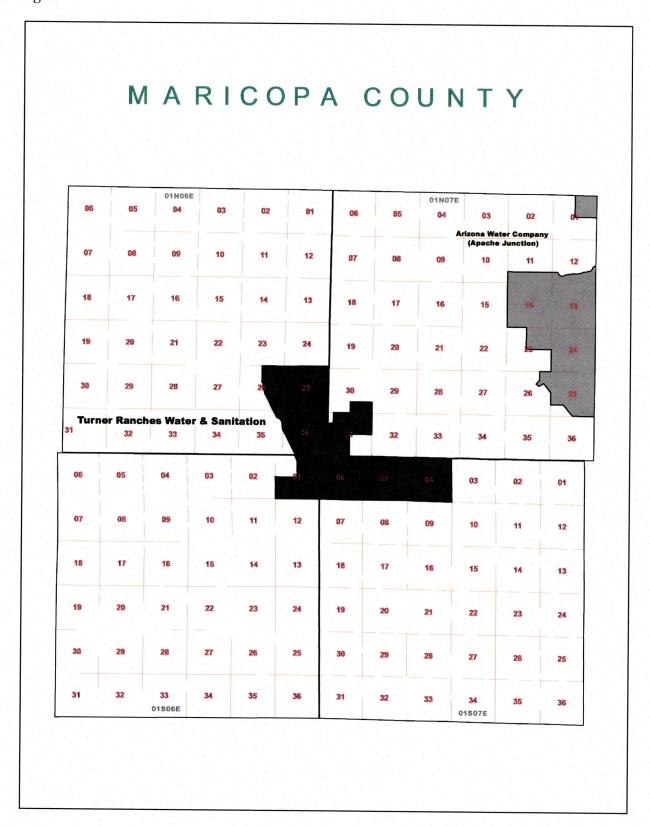


Figure 4. Certificated Area in Maricopa County

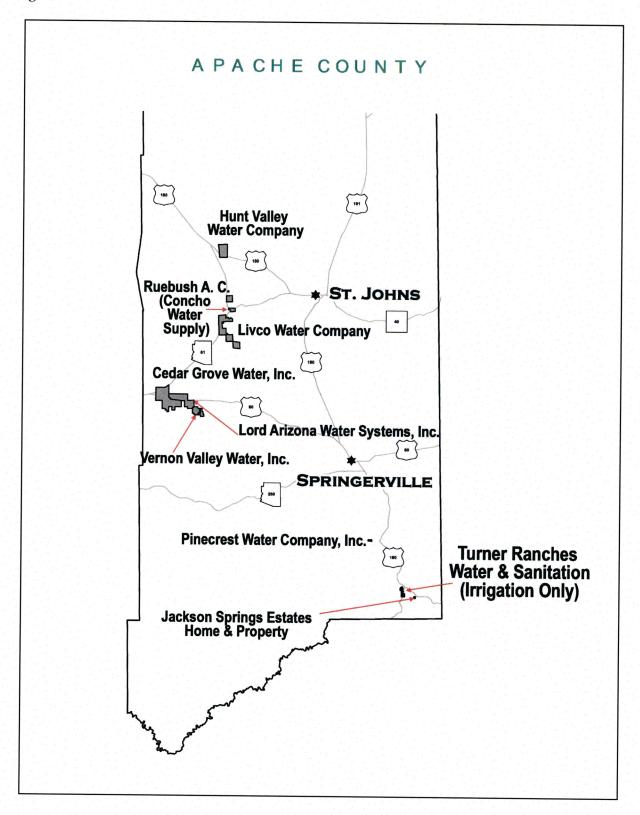


Figure 1. Apache County Map (Lower Third)

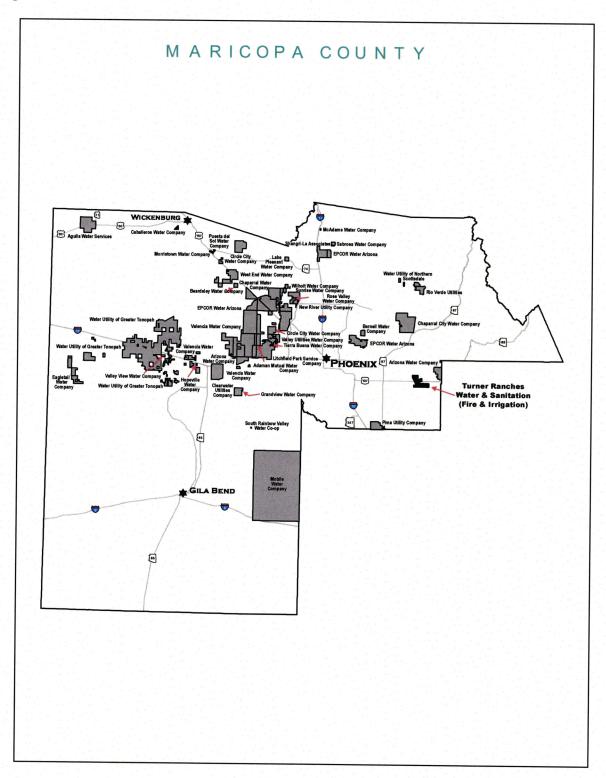


Figure 2. Maricopa County Map

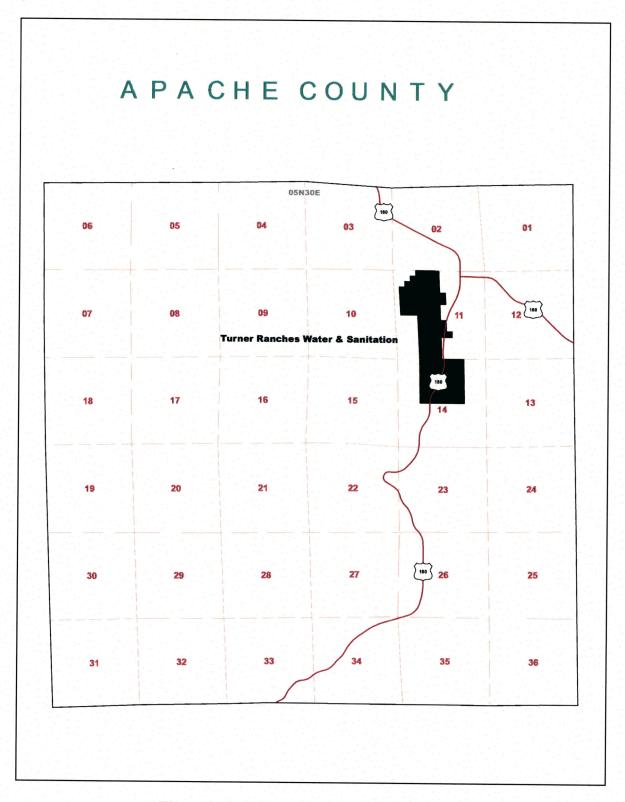


Figure 3. Certificated Area in Apache County

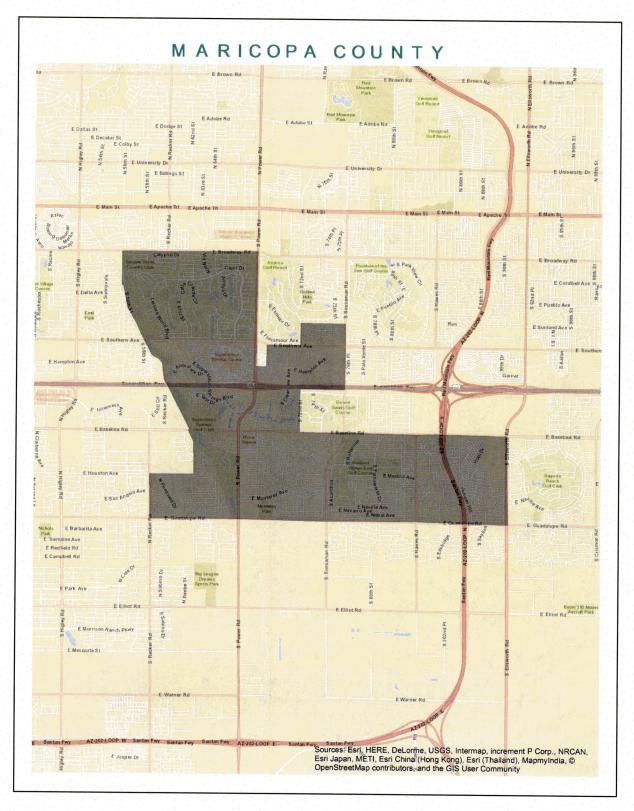


Figure 5. Detailed location of Certificated Area in Maricopa County

### C. WATER USE

Water Sold

Figure 6 presents the water consumption data provided by the Company for the test year ending December 2015. This figure shows the customer consumption experienced a high monthly water use of 3,765,706 gallons per day ("gpd") in July and low monthly water use of 558,387 gpd in December for an average annual use of 1,859,258 gpd.

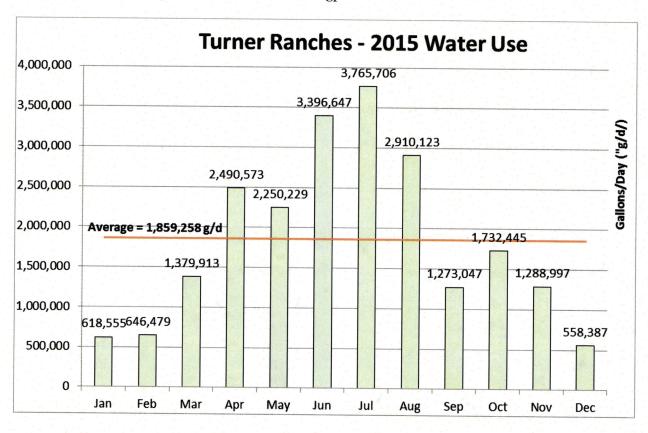


Figure 6. Water Use

Non-Account Water

Non-account water should be 10 percent or less. The annual reports for the past 10 years ending December 2015, revealed an average water loss of 0.6 percent. In its annual report for the year ending December 2015, the Company reported 681,395,500 gallons pumped and 507,708,000 gallons sold, however this did not include the unmetered gallons sold. Including the unmetered gallons sold the total gallons sold in 2015 was 681,255,400 resulting in a water loss of 0.02 percent. The water loss is within the acceptable level of 10 percent recommended by Staff. However, the water loss presented is misleading as the unmetered gallons sold is simply the difference between

 $<sup>^{10}</sup>$  Revised 2015 water consumption spreadsheet provided in email dated 4/27/2016 by Judy Lopez, president of First National Management.

gallons pumped and gallons sold.<sup>11</sup> If this were the case then each year would register zero water loss. Water sold to the 963 Leisure World residential customers for irrigation purposes are supplied by the fire and irrigation booster station which does not contain a water meter. Figure 7 shows the water loss over the past 10 years with a number of years where the water loss was a negative percentage. This seems to be an indication of acre-feet to gallons conversion errors and misreading of water meters.

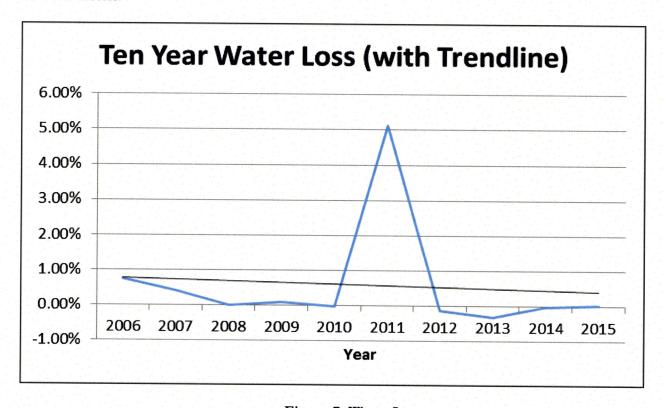


Figure 7. Water Loss

According to the water system operator it is unknown why there was 5.13 percent water loss in 2011. The operator surmised that the well pump meter readings were in error. This reasoning seems likely as the other yearly water losses are below 1.0 percent. Staff recommends that the Company install a water meter at the fire and irrigation booster station to register gallons sold to the Leisure World residential customers.

Water Usage

Figure 8 illustrates the amount of irrigation water sold over the past 10 years and also shows the decline in sales. In the Company's Response to Data Request No. FS 5.5 as to why there has been a reduction in sales, Turner Ranches stated that one customer, Superstition Spring Golf Course, has drastically reduced water consumption. The Company interviewed the golf course superintendent concerning the reduced consumption. According to the Company, the

<sup>&</sup>lt;sup>11</sup> Water system operator, Ronny Lopez, states that "The UM gal [unmetered gallons] is calculated by the Total Gallons Pumped minus Gallons Metered to give Unmetered gallons.", email dated May 11, 2016

superintendent replied it was all driven by reducing costs as much as possible. The gallons sold data were acquired from the Company's annual reports and adjusted quantities provided by the Company. Utilizing linear regression, Figure 8 predicts that the Company's irrigation water sales will decline steadily at a slow rate.

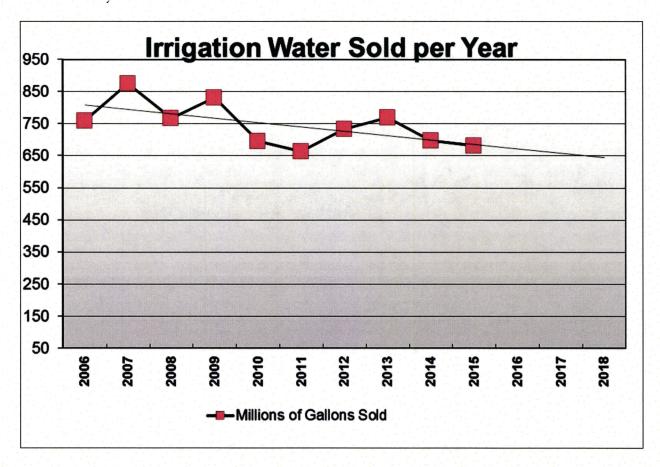


Figure 8. Irrigation Water Usage per Year

System Analysis

The Company has five groundwater wells totaling production capacity of approximately 5,380 gpm, three fire and irrigation booster pumps totaling approximately 2,500 gpm and one 400-500 gpm recirculation pump. The system has adequate irrigation and fire protection capacity to serve the present customer base and reasonable growth. The system does not have storage tank structures but utilizes a series of lakes to store irrigation and fire protection water.

#### D. GROWTH

In its application, the Company states it provides irrigation water service to four customers. The Company does not anticipate an increase in its customer base or new development in its CC&N within the near future.<sup>12</sup>

# E. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY ("ADEQ")

Compliance

The Company does not provide potable water and, therefore, is not regulated by ADEQ.

# F. ARIZONA DEPARTMENT OF WATER RESOURCES ("ADWR")

Compliance

The Company is located in the Phoenix Active Management Area ("AMA"). According to an ADWR Water Provider Compliance Report, dated March 17, 2016, the Company is not currently compliant with ADWR's requirements governing water providers and/or community water systems. In its compliance report, ADWR could not determine water loss from the information provided by the Company. Staff and ADWR personnel met with the Company on May 24, 2016, to discuss possible resolutions. It was determined that a meter installed at the Fire and Irrigation station would satisfy ADWR's requirements for compliance.

Staff recommends that any increase in rates approved by the Commission not become effective until the first day of the month after the Company files with Docket Control, as a compliance item in this docket, documentation from ADWR indicating that Turner Ranches water system is compliant with departmental requirements governing water providers and/or community water systems.

# G. ACC COMPLIANCE

On May 1, 2015, the Utilities Division compliance database showed that the Company had no delinquent ACC compliance items.

#### H. DEPRECIATION RATES

The Company has been using Staff's typical and customary depreciation rates. These depreciation rates are presented in Table 6 below and it is recommended that the Company continue to use these depreciation rates.

<sup>&</sup>lt;sup>12</sup> See Narrative Description of Application for Rate Adjustment "Anticipated growth/decline in customers expected in the next two years," discussion on page 3 of the Rate Application.

Table 6. Depreciation Rates

NARUC Acct. No.	Depreciable Plant	Average Service Life (Years)	Annual Accrual Rate (%)
304	Structures & Improvements	30	3.33
305	Collecting & Impounding Reservoirs	40	2.5
306	Lake, River, Canal Intakes	40	2.5
307	Wells & Springs	30	3.33
308	Infiltration Galleries	15	6.67
309	Raw Water Supply Mains	50	2
310	Power Generation Equipment	20	5
311	Pumping Equipment	8	12.5
320	Water Treatment Equipment		Secretary to the second
320.1	Water Treatment Plants	30	3.33
320.2	Solution Chemical Feeders	5	20
320.3	Point-of-Use Treatment Devices	10	10
330	Distribution Reservoirs & Standpipes		
330.1	Storage Tanks	45	2.22
330.2	Pressure Tanks	20	5
381	Transmission & Distribution Mains	50	2
333	Services	30	3.33
334	Meters	12	8.33
335	Hydrants	50	2
336	Backflow Prevention Devices	15	6.67
300	Other Plant & Misc. Equipment	15	6.67
<b>34</b> 0	Office Furniture & Equipment	15	6.67
340.1	Computers & Software	5	20
344	Transportation Equipment	5	20
. 342	Stores Equipment	25	4
345	Tools, Shop & Garage Equipment	20	5
344	Laboratory Equipment	10	10
345	Power Operated Equipment	20	5
346	Communication Equipment	10	10
347	Miscellaneous Equipment	10	10

### I. OTHER ISSUES

## 1. Service Line and Meter Installation Charges

Service line and meter installation charges are refundable advances. In its filing, the Company requested changes to its current Commission approved service line and meter installation charges.<sup>13</sup> The Company requests the customer pay the actual cost of the meter and installation. Staff agrees with the Company's requested change. Staff recommends approval of the meter and installation charges listed under "Company's Requested/Staff Recommended Charges" in Table 7.

Meter Size	Company's Current and Commission Approved Charges	Company's Requested/Staff Recommended Charges		
5/8" x ¾"	\$400	At Cost		
3/4"	\$440	At Cost		
1"	\$500	At Cost		
1-1/2"	\$715	At Cost		
、2" Turbo	\$715	At Cost		
2" Compound	\$1,700	At Cost		
3" Turbo	\$1,585	At Cost		
3" Compound	\$2,190	At Cost		
4" Turbo	\$2,540	At Cost		
4" Compound	\$3,215	At Cost		
6" Turbo	\$4,915	At Cost		
6" Compound	\$6,270	At Cost		
8" & Larger 🕠		At Cost		

Table 7. Service line and meter installation charges

# 2. Water Testing Expense

The Company does not provide potable water and, therefore, does not participate in the ADEQ's Monitoring Assistance Program ("MAP"). The Company reported its water testing expenses for the test year at \$430. In 2014 and 2015, the Company experienced several months of decrease production in the TR-10 well. Water testing concluded that high levels of calcium is the reason for scaling of the well and pump. According to the owner the other wells are not affected. The Company forecasts a 2 percent increase per year in water testing costs. Staff regards a yearly increase of 2 percent to be a reasonable assumption. Staff recalculated the average water testing expense for the next 3 years. Staff recommends an annual water testing expense of \$447 be used for purposes of this application.

## 3. Capital Improvement and Maintenance Projects

In its financing application, the Company seeks approval of long-term debt financing for the

<sup>&</sup>lt;sup>13</sup> The Company's current charges were approved in ACC Decision No. 60927, dated May 26, 1998.

purpose of repaying First National Management for funding used to upgrade plant and perform needed maintenance on existing equipment located at water wells, pump stations and its distribution system. Table 8 shows a detailed listing of the Company's requested capital improvement projects that it regards as necessary to maintain service and reliability of the water system. Staff agrees with the order of project priorities. The Company asserts that since the City of Mesa effluent contract was discontinued as of July 2013, it became necessary to pump more groundwater to fulfill its customer irrigation requirements. According to the Company, the irrigation system is aged and requires upgrading.

Staff concludes that the Capital Improvements and Maintenance Projects proposed by the Company and contained in its financial application are appropriate and their associated cost estimates of \$660,500 appear to be reasonable. Of the ten priority projects listed only the TR-10 rebuild is completed. Staff re-inspected the water system on May 14, 2016, and found TR-10 well used and useful. However, no "used and useful" determination of the remaining proposed maintenance and plant additions were made, as none of the remaining proposed projects have been completed.

Table 8. List of Priority Capital Improvement and Maintenance Projects

											-
Company Proposed & Staff Recommended Costs to be Financed <sup>14</sup>	\$80,00015	\$92,210	\$117,175	\$33,720	\$87,32516	\$55,250	\$32,000	\$29,000	\$84,000	\$49,820	
Description of Work to be Completed	Remove well, replacement of column pipe, tube & shaft, camera well, single casing patch, rebuild motor & bowl assembly & reinstall.	Remove well, replacement of column pipe, tube & shaft, camera well, single casing patch, rebuild motor & bowl assembly & reinstall.	Existing Leisure World effluent line extended 1,400 LF to SSGC irrigation lake. Would allow Recker or Broadway wells to deliver water to SSGC irrigation lake.	Install smaller VFD controlled pump that will provide minimum capacity of 250-300 gpm. Also needed in case existing pump fails.	Remove well, replacement of column pipe, tube & shaft, camera well, single casing patch, rebuild motor & bowl assembly & reinstall.	Replacement of MCC Cabinet & all electrical components.	Installation of 2nd pump of same capacity, alternate with existing pump & install all required electrical components.	Excavation, removal of existing units, replace with new units and backfill.	Excavation, removal of existing units, replace with new units and backfill.	Remove well, replacement of column pipe, tube & shaft, camera well, single casing patch, rebuild motor & bowl assembly & reinstall.	
Company's Reasons for Upgrade	Operator hearing knocking noise, output steadily dropping, well occasionally binds & will not operate.	Well discharging silt (possible casing failure), output has declined rapidly & motor operating very noisy.	Do to loss of effluent contract in 2013, there is no current means of providing an alternative water supply to the SSGC.	VFD controlled pump runs continually due to low flow thru station. Current pump is 75 hp with capacity of 800 gpm.	Shaft wobbles considerably & motor casing severely corroded	Existing electrical greater than 30 years old & MCC rusted in several areas & allows water leakage into MMC.	Currently a single pump provide water to the upper lake. When failure occurs the Company must rent pumping equipment.	Six fire hydrants were not replaced during hydrant replacement program in 1998.	Currently 10 distribution system valves do not operate.	During operation motor operates at a very high temperature.	T 111 11 11 11 11 11 11 11 11 11 11 11 1
Project Name	TR 10 Well Rebuild	Recker Well Rebuild	TR 10 Well Back-Up	F & I Station Jockey Pump Addition	Taylor Well Rebuild	Taylor Well Electrical Improvements	Recirculation Station	Fire Hydrant Replacements	Valve Replacements	TR 11 Well Rebuild	
Project Priority	<b>,</b>	7	ç	4	2	9		8	6	10	F. F.

Note: Fire & Irrigation ("F & I"), Recommended ("Rec'd"), Motor Control Center ("MCC"), Superstition Springs Golf Course ("SSGC")

14 Company's estimated costs were provided by Arizona Licensed Contractors in the form of actual invoices, quotations or cost estimates for described work.

15 Company's estimated cost provided by email dated 5/11/2016 by Ronny Lopez, water system operator. TR-10 well became used and useful on May 9, 2016.
16 Estimate by the Company utilized pricing by Weber Pump and comparing costs with past repair of Broadway Well by Choice Pump, Fall of 2015.